

Notice



☐ CORRECTION

☒ PRODUCTION CHANGE

☐ SERVICE FLASH

☐ ADD INFORMATION

FILE NO.

REVISION-3

Please add this notice to the Service Manual listed below.

Category : Multi-media Projector

Issued Date : May / 2007

Model : PLC-XE40

Effective from : Chassis No. LK6-XE4001

Destination : Asia
Europe, U.K., U.S.A, Canada

REF. NO. : SM5110793

NOTE: Match the Chassis No. on the unit's back cover with the Chassis No. in the Service Manual.

If the Chassis. No. does not match the unit's, additional Service Literature is required. Only the difference service information is given in this manual. For detailed service information, refer to the service manual original SM5110793-00 issued in July 2006 for Model PLC-XE40.

FILE WITH ORIGINAL SERVICE MANUAL (SM5110793)

❗ RoHS

- This product does not contain any hazardous substances prohibited by the RoHS Directive. (You will find "RSF" mark near the rating plate on the RoHS compliant product.)

⚠ WARNING

- You are requested to use RoHS compliant parts for maintenance or repair.
- You are requested to use lead-free solder.

PRODUCT CODE

1 122 349 20 (LK6AC)

1 122 349 22 (LK6CC)

1 122 379 20 (KK6AC)

REFERENCE NO. SM5110793-03


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Safety Instructions

SAFETY PRECAUTIONS

WARNING:

The chassis of this projector is isolated (COLD) from AC line by using the converter transformer. Primary side of the converter and lamp power supply unit circuit is connected to the AC line and it is hot, which hot circuit is identified with the line () in the schematic diagram. For continued product safety and protection of personnel injury, servicing should be made with qualified personnel.

The following precautions must be observed.

1: An isolation transformer should be connected in the power line between the projector and the AC line before any service is performed on the projector.

2: Comply with all caution and safety-related notes provided on the cabinet back, cabinet bottom, inside the cabinet or on the chassis.


3: When replacing a chassis in the cabinet, always be certain that all the protective devices are installed properly, such as, control knobs, adjustment covers or shields, barriers, etc.

DO NOT OPERATE THIS PROJECTOR WITHOUT THE PROTECTIVE SHIELD IN POSITION AND PROPERLY SECURED.

4: Before replacing the cabinet cover, thoroughly inspect the inside of the cabinet to see that no stray parts or tools have been left inside.

Before returning any projector to the customer, the service personnel must be sure it is completely safe to operate without danger of electric shock.

PRODUCT SAFETY NOTICE

Product safety should be considered when a component replacement is made in any area of the projector. Components indicated by mark  in the parts list and the schematic diagram designate components in which safety can be of special significance. It is, therefore, particularly recommended that the replacement of these parts must be made by exactly the same parts.

SERVICE PERSONNEL WARNING

Eye damage may result from directly viewing the light produced by the Lamp used in this equipment. Always turn off Lamp before opening cover. The Ultraviolet radiation eye protection required during this servicing. Never turn the power on without the lamp to avoid electric-shock or damage of the devices since the stabilizer generates high voltages (15kV - 25kV) at its starts. Since the lamp is very high temperature during units operation replacement of the lamp should be done at least 45 minutes after the power has been turned off, to allow the lamp cool-off.

Battery Replacement Notice

Caution

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacture's instructions.

Replace Battery With SANYO Electric Co., Ltd., Part No. 945 081 8722 or 945 088 6837 Only. Use of Another Battery May Present A Risk Of Fire or Explosion.

Specifications

Mechanical Information

Projector Type	Multi-media Projector
Dimensions (W x H x D)	12.6" x 5.83" x 11.5" (320mm x 148mm x 292mm) (Not including adjustable feet)
Net Weight	7.3 lbs (3.3kgs)
Feet Adjustment	0° to 10.0°

Panel Resolution

LCD Panel System	0.6" TFT Active Matrix type, 3 panels
Panel Resolution	1,024 x 768 dots
Number of Pixels	2,359,296 (1,024 x 768 x 3 panels)

Signal Compatibility

Color System	PAL, SECAM, NTSC, NTSC4.43, PAL-M, PAL-N
High Definition TV Signal	480i, 480p, 575i, 575p, 720p, 1035i, and 1080i
Scanning Frequency	H-sync. 15 ~ 100 KHz, V-sync. 50 ~ 100 Hz

Optical Information

Projection Image Size (Diagonal)	Adjustable from 60" to 80"
Projection Lens	F 1.85 lens with f 8.1 mm ~ 27 mm with manual focus
Throw Distance	2.49' - 3.38' (0.76m - 1.03m)
Projection Lamp	200W

Interface

Video Input Jack	RCA Type x 1
S-Video Input Jack	Mini DIN 4 pin x 1
Audio Input Jacks	RCA Type x 2
Computer Input 1 / Component Input Terminal	Analog RGB (Mini D-sub 15 pin) Terminal X 1
Computer Input 2 / Monitor Output Terminal	Analog RGB (Mini D-sub 15 pin) Terminal X 1 (In / Out switchable)
Computer/ Component Audio Input Jack	Mini Jack (stereo) x 1
Service Port Connector	Mini DIN 8 pin x 1
USB Connector	USB Series B receptacle x 1
Audio Output Jack	Mini Jack (stereo) x 1 (Variable)

Audio

Internal Audio Amp	1.0W RMS
Built-in Speaker	1 speaker, ø1.1" (28mm)

Power

Voltage and Power Consumption	AC 100 ~ 120 V (2.9A Max. Ampere), 50 / 60 Hz (The U.S.A and Canada)
	AC 200 ~ 240 V (1.4A Max. Ampere), 50 / 60 Hz (Continental Europe and The U.K.)

Operating Environment

Operating Temperature	41 °F ~ 95 °F (5 °C ~ 35 °C)
Storage Temperature	14 °F ~ 140 °F (-10°C ~ 60 °C)

Remote Control

Battery	AA or LR6 1.5V ALKALINE TYPE x 2
Operating Range	16.4' (5m) / ±30°
Dimensions	1.9"(W) x 0.87"(H) x 5.7"(D) (49mm x 22mm x 145.3mm)
Net Weight	3.53 oz (100 g) (including batteries)

Antitheft Alarm

Battery	CR2 3V LITHIUM BATTERY x 1
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- The specifications are subject to change without notice.
- LCD panels are manufactured to the highest possible standards. Even though 99.99% of the pixels are effective, a tiny fraction of the pixels (0.01% or less) may be ineffective by the characteristics of the LCD panels.



This symbol on the nameplate means the product is Listed by Underwriters Laboratories Inc. It is designed and manufactured to meet rigid U.L. safety standards against risk of fire, casualty and electrical hazards.

Circuit Protections

This projector provides the following circuit protections to operate in safety. If the abnormality occurs inside the projector, it will automatically turn off by operating one of the following protection circuits.

Thermal switch

There is the thermal switch (SW902) inside of the projector to detect the internal temperature rising abnormally. When the internal temperature reaches near 105°C, the thermal switch opens to stop the operation of the power supply circuit.

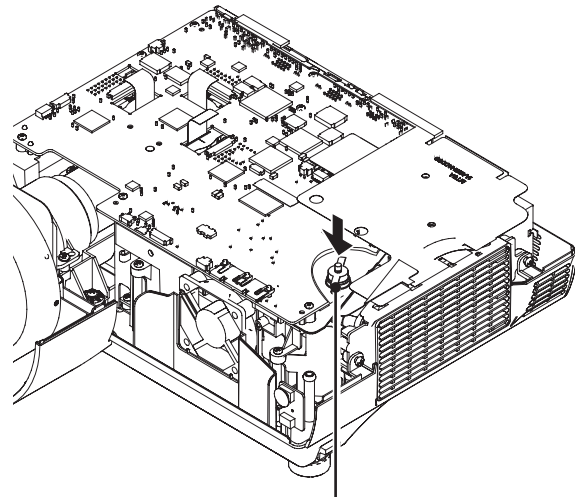
The thermal switch cannot be reset itself automatically even if the internal temperature becomes normal. Reset the thermal switch following to the below procedure.

How to reset the thermal switch

1. Remove the cabinet top, cabinet front and main board and then remove the power box top cover.
2. Press the reset button on the thermal switch in the power box.

CAUTION:

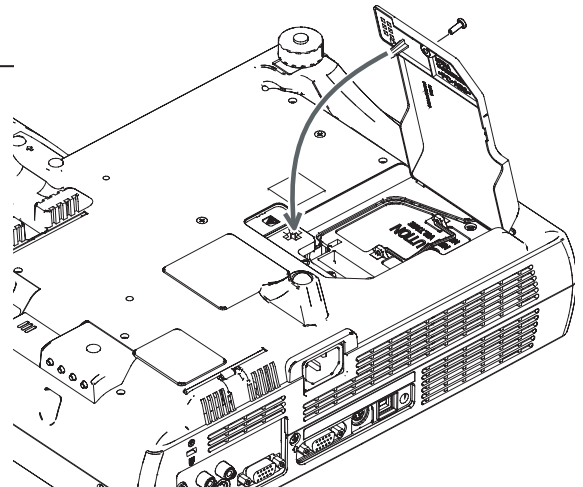
Before press the reset button, make sure that the AC cord must be disconnected from the AC outlet.



Thermal switch (SW902)

Lamp cover switch

The lamp cover switch (SW901) cuts off the drive signal to the lamp circuit when the lamp cover is removed or not closed completely. After opening the lamp cover for replacing the lamp ass'y, place the lamp cover correctly otherwise the projector can not turn on.



Fuse

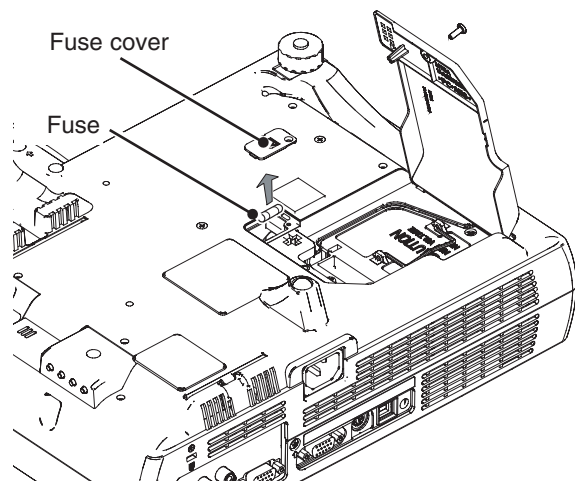
A fuse is located inside of the projector. When the POWER indicator is not lightening, the fuse may be opened. Check the fuse as following steps.

The fuse should be used with the following type;

Fuse Part No.: 323 021 7804
TYPE T6.3AH 250V FUSE
LITTLE FUSE INC. TYPE 21506.3

How to replace the fuse

1. Remove the lamp cover and fuse cover as shown in figure.
2. Take the fuse out from the aperture, and replace the new one with the specified type.



Warning temperature and power failure protection

The projector will be automatically turned off when the internal temperature of the projector is abnormally high, or the cooling fans stop spinning, or the power supplies in the projector are failed.

- If the WARNING indicator is flashing, it may detect the abnormal temperature inside the projector. Check the following possible causes and wait until the WARNING indicator stops flashing, and then try to turn on the projector.
- If the WARNING indicator lights red, it may defect the cooling fans or power supply circuits. Check fans operation and power supply lines referring to the chapter “Power supply & protection circuit” in the Chassis Block Diagram section.

Possible causes

- Air filters are clogged with dust particles. Remove dust from the air filters by following instructions in the “Air filter care and cleaning” below.
- Ventilation slots of the projector are blocked. In such an event, reposition the projector so that ventilation slots are not obstructed.
- Check if projector is used at higher temperature place (Normal operating temperature is 5 to 35 °C or 41 to 95°F)

Air filter care and cleaning

Air filters prevent dust from accumulating on the optical elements inside the projector. Should the air filters become clogged with dust particles, it will reduce cooling fans’ effectiveness and may result in internal heat build up and adversely affect the life of the projector. Clean the air filters following the steps below.

1. Turn off the projector, and disconnect the AC power cord from the AC outlet.
2. Turn over the projector and remove the air filters by pulling the latches upward.
3. Clean the air filters with a brush or rinse them softly.
4. When cleaning the air filters by rinsing, dry them well. Replace the air filters properly. Make sure that the air filters are fully inserted.

CAUTION:

Do not operate the projector with the air filters removed. Dust may accumulate on the LCD panel and the projection mirror degrading picture quality.

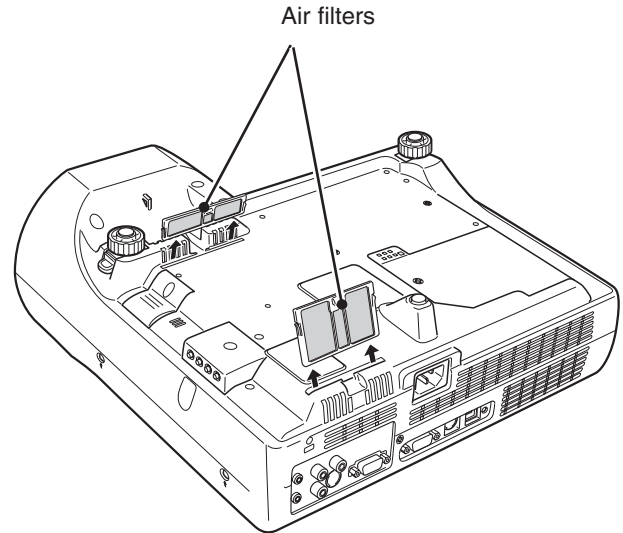
Do not put small parts into the air intake vents. It may result in malfunction of the projector.

RECOMMENDATION:

We recommend avoiding dusty/smoky environments when operating the projector. Usage in these environments may cause poor image quality.

When using the projector under dusty or smoky conditions, dust may accumulate on a lens, LCD panels, or optical elements inside the projector. This condition may degrade the quality of a projected image.

When the symptoms above are noticed, contact your authorized dealer or service station for proper cleaning.



Security Function Notice

Security Function Disable

This projector provides security functions such as "PIN code lock" and "Logo PIN code lock". When the projector has set these security function on, you are required to enter correct PIN code to use the projector. If you do not know the correct PIN code to the projector, the projector can no longer be operated or started. In this case, you must reset those function first according to the resetting procedure described below and then check up on the projector.

Function	Description
PIN code lock	Prevents the projector from being operated by an unauthorized person. <i>Initial code: "1234"</i>
Logo PIN code lock	Prevents an unauthorized person for changing the start-up logo and captured image on the screen. <i>Initial code: "4321"</i>

Resetting procedure

- 1 Turn the projector off (in the standby mode).
- 2 Press and hold the ◀ and ▶ **button** on the remote control at the same time for more than 10 seconds. The PIN code and Logo PIN code will be reset to the factory initial setting code.

Please refer to the owner's manual for further information of the security functions.

Antitheft Alarm Function Disable

This projector provides an Antitheft alarm function which works when detecting a vibration to protect the projector from a suspicious person.

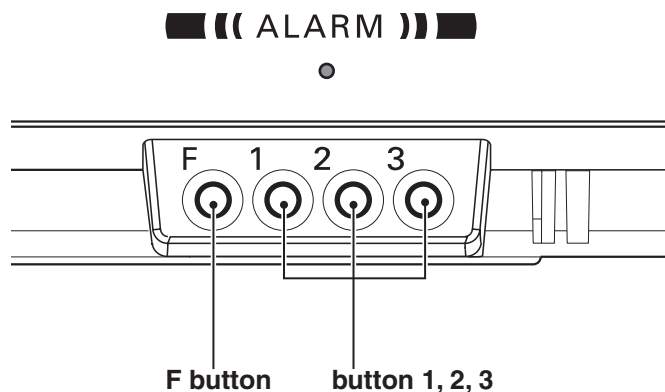
Release the alarm setting

Press the **F button** and input the four-digit PIN code within 10 seconds. (default PIN code "1111") When the alarm is released, you will hear high-pitched confirmation sound.

When inputting an incorrect PIN code, you will hear low-pitched sound. If you input incorrect PIN codes 3 times, the alarm will start ringing.

If you forget the PIN code to release the alarm setting, press and hold the **button 3** and **F button** at the same time for more than 3 seconds.

Side Control



Lamp Replacement

Lamp replacement

WARNING:

- For continued safety, replace with a lamp assembly of the same type.
- Allow the projector to cool for at least 45 minutes before you open the lamp cover. The inside of the projector can become very hot.
- Do not drop the lamp module or touch the glass bulb! The glass can shatter and cause injury.

Procedure

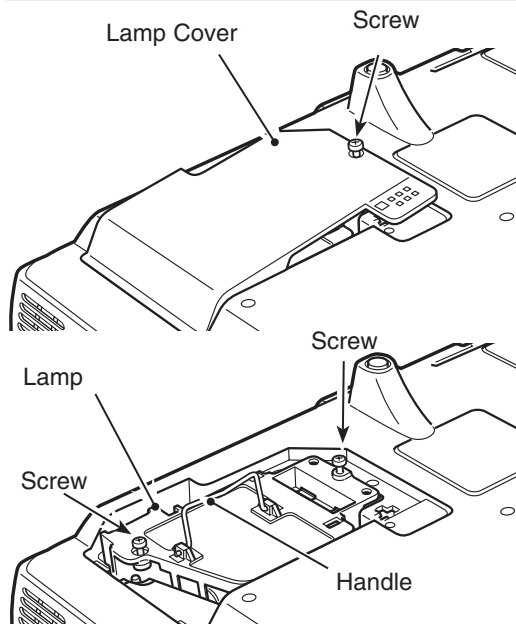
- 1 Turn off the projector and disconnect the AC cord.
- 2 Remove 1 screw with a screwdriver and remove the lamp cover.
- 3 Loosen 2 screws and pull out the lamp assembly by grasping the handle.
- 4 Replace the lamp with a new one and tighten the 2 screws back into position. Make sure that the lamp is set properly. Replace the lamp cover and tighten the screw.
- 5 Connect the AC cord to the projector and turn on.
- 6 Reset the lamp replacement counter, see below explanation.

Note

- The projector cannot be turned-on with lamp cover removed, because when the lamp cover is removed, the lamp cover switch is also released to switch off the lamp circuit.

ORDER REPLACEMENT LAMP

Type No. _____ Service Parts No. _____
POA-LMP90 610 323 0726



**WARNING : TURN OFF THE UV LAMP BEFORE OPENING.
USE UV RADIATION EYE AND SKIN PROTECTION DURING SERVICING.**

How to reset Lamp Replace Counter

- 1 Turn the projector on, press the **MENU** button and the On-Screen Menu will appear. Press the ◀ or ▶ **button** to move the red frame pointer to the Setting Menu icon.
- 2 Press the ▼ **button** to move the red frame pointer to the Lamp counter reset item and then press the **SELECT** button. Select "Reset" and press the **SELECT** button. The message "Lamp replace counter Reset?" is displayed. Move the pointer to [Yes] and then press the **SELECT** button.

* Refer to owner's manual for further information.

Recommendation

Should the air filter become clogged with dust particles, it will reduce the cooling fan's effectiveness and may result in internal heat build up and short lamp life. We recommend cleaning the air filter after the projection lamp is replaced.
Refer to "Air Filter Cleaning".

How to check Lamp used time

The LAMP REPLACE indicator will light yellow when the total lamp used time (Corresponding value) reaches 3000 hours. This is to indicate that lamp replacement is required.

The total lamp used time is calculated by using the below expression,

Total lamp used time = $T_{eco} + T_{normal} \times 1.5$

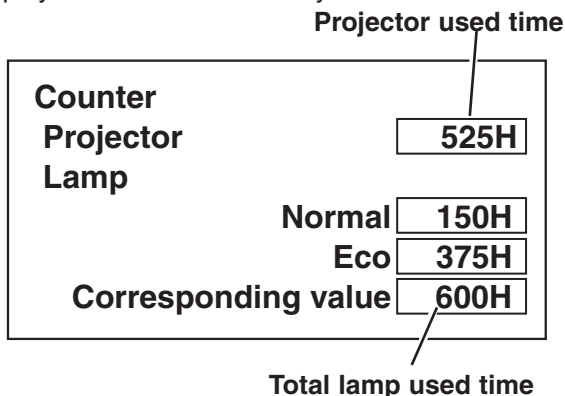
T_{eco} : used time in the Eco mode

T_{normal} : used time in the Normal mode

You can check the lamp used time following to the below procedure.

- 1 Press and hold the **ON-OFF** button on the remote control for more than 20 seconds.

- 2 The projector used time and lamp used time will be displayed on the screen briefly as follows.




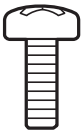
Mechanical Disassembly

Mechanical disassembly should be made following procedures in numerical order.

Following steps show the basic procedures, therefore unnecessary step may be ignored.

Caution:

The parts and screws should be placed exactly the same position as the original otherwise it may cause loss of performance and product safety.

Screws Expression (Type Diameter x Length) mm	
T type	M Type
	

1 Cabinet Top & Fans (FN901, FN902), R/C Board removal

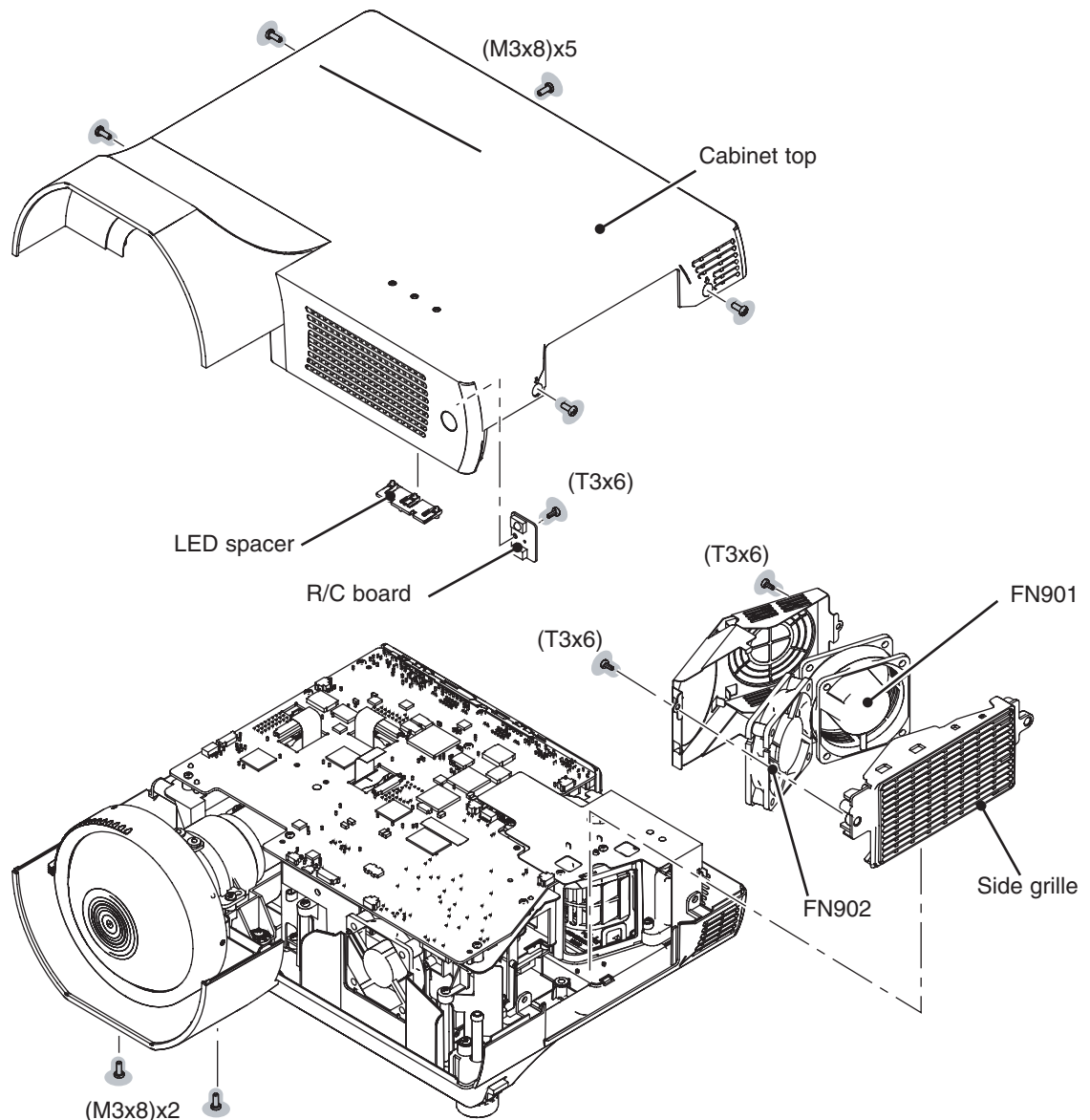


Fig.1

2 Main Board, Rear Panel, Fan(FN905), SP901 removal

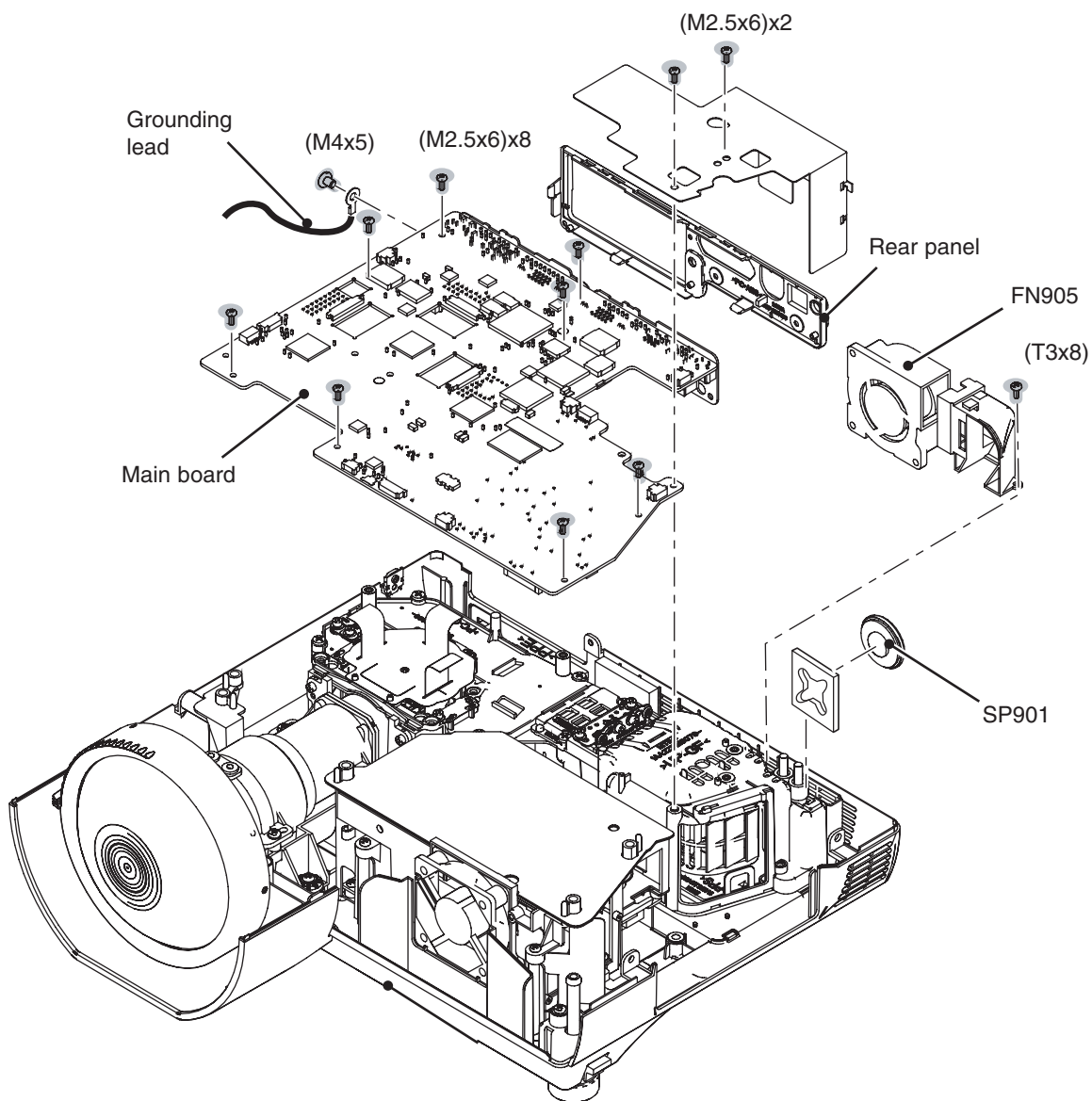


Fig.2

3 Power, Line Filte, Ballast Board,Thermal Sw(SW902), Fan(FN906) removal

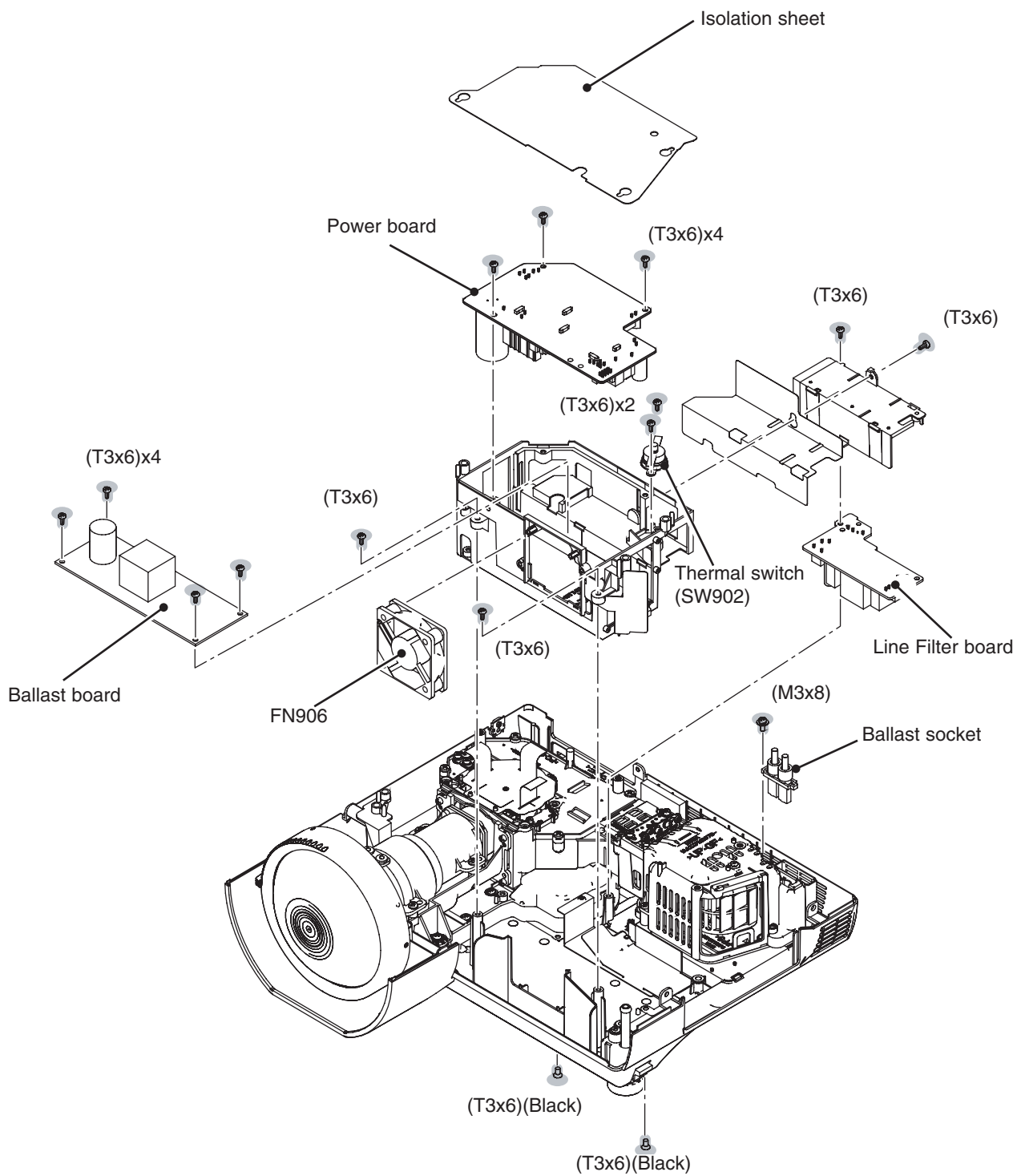


Fig.3

4 Optical Unit, Fans(FN903, FN904), Noise Filter removal

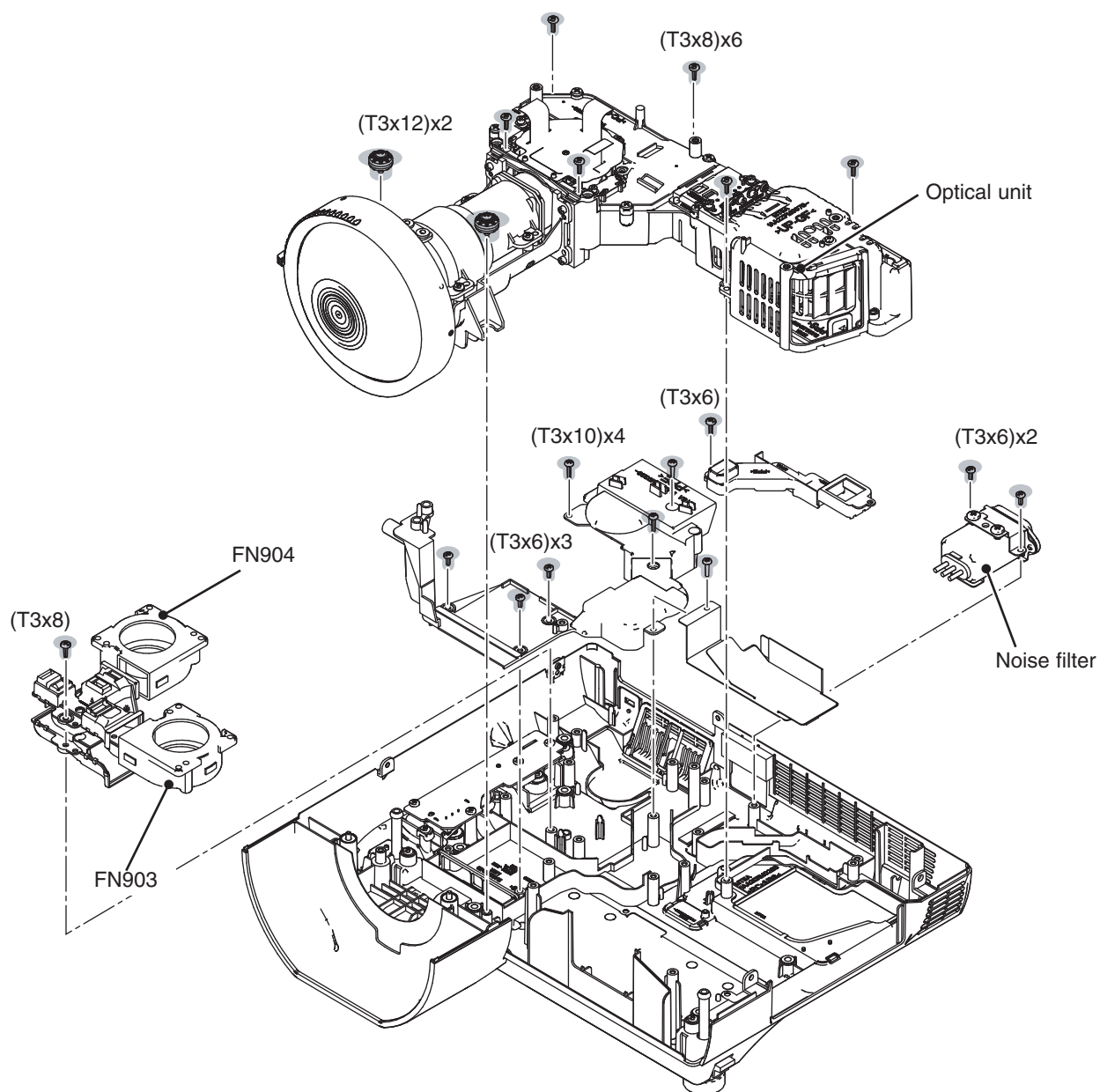


Fig.4

5 Alarm-A and Alarm-B board removal

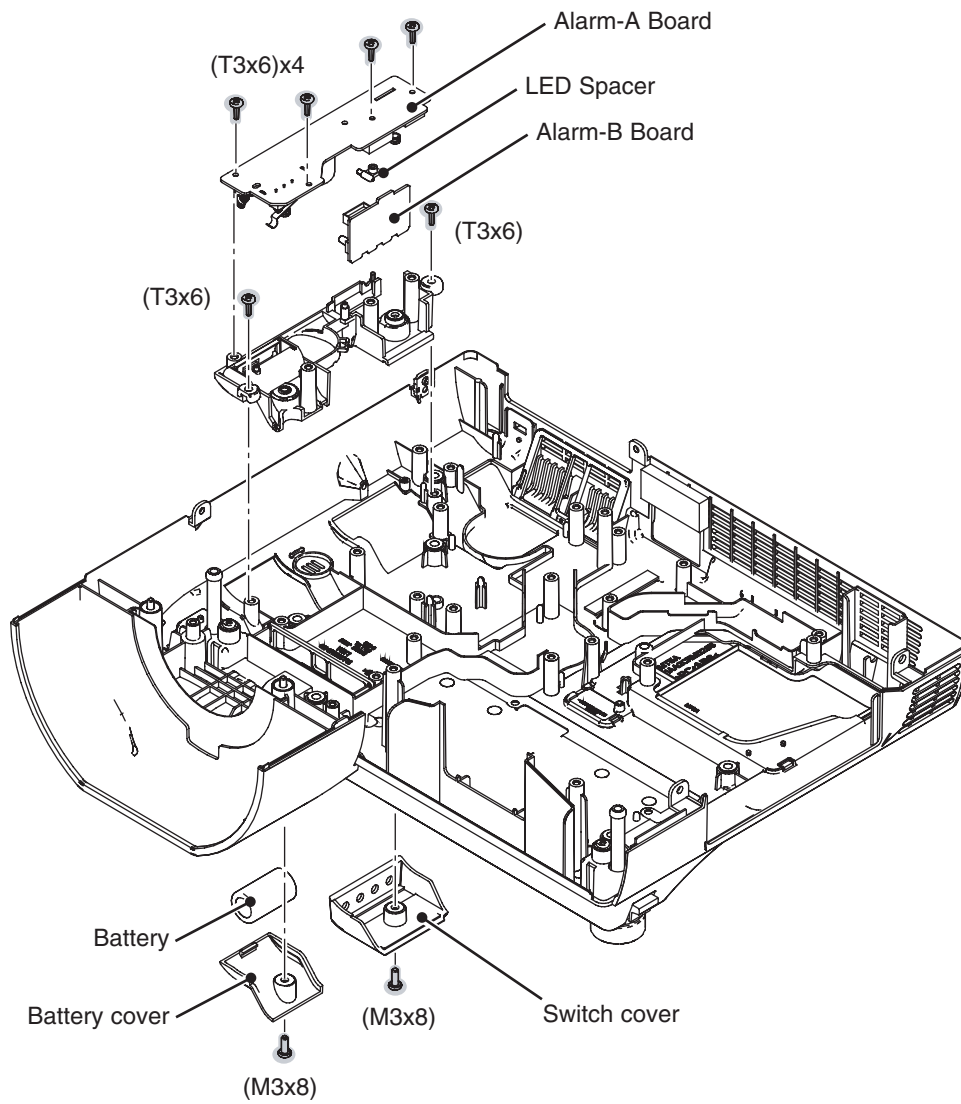


Fig.5

Optical Parts Disassembly

Before taking this procedure, remove Cabinet Top , Cabinet Front and Main Board following to the “Mechanical Disassembly”.

Disassembly requires a 2.0mm hex wrench.

1 Projection lens removal

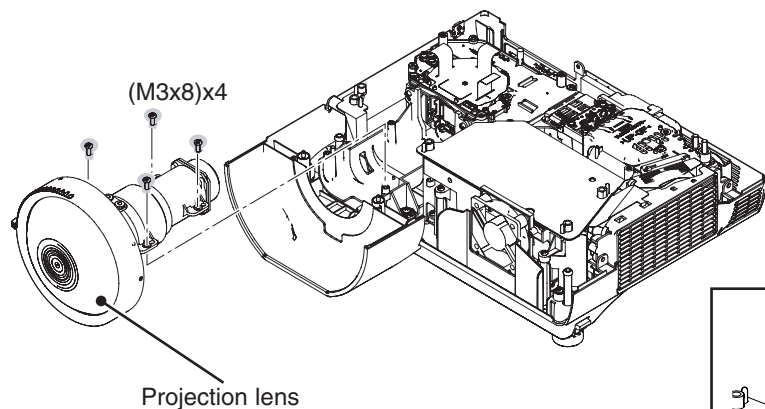
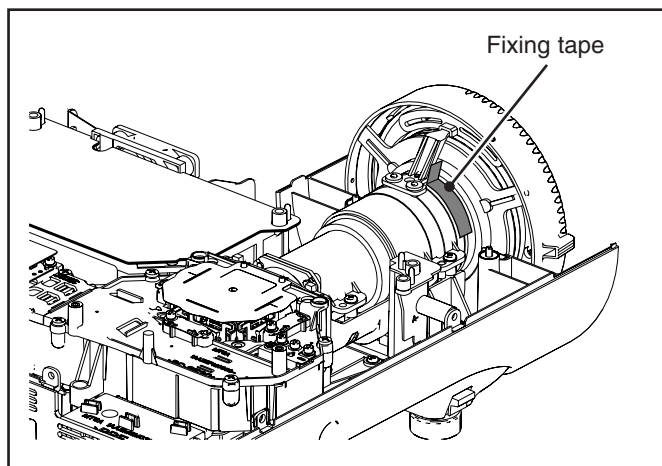


Fig.1



Note on replacing the Projection Lens

- When the Projection Lens is replaced with the new one, make sure that the fixing tape must be removed as the figure.

2 Integrator lens-in disassembly

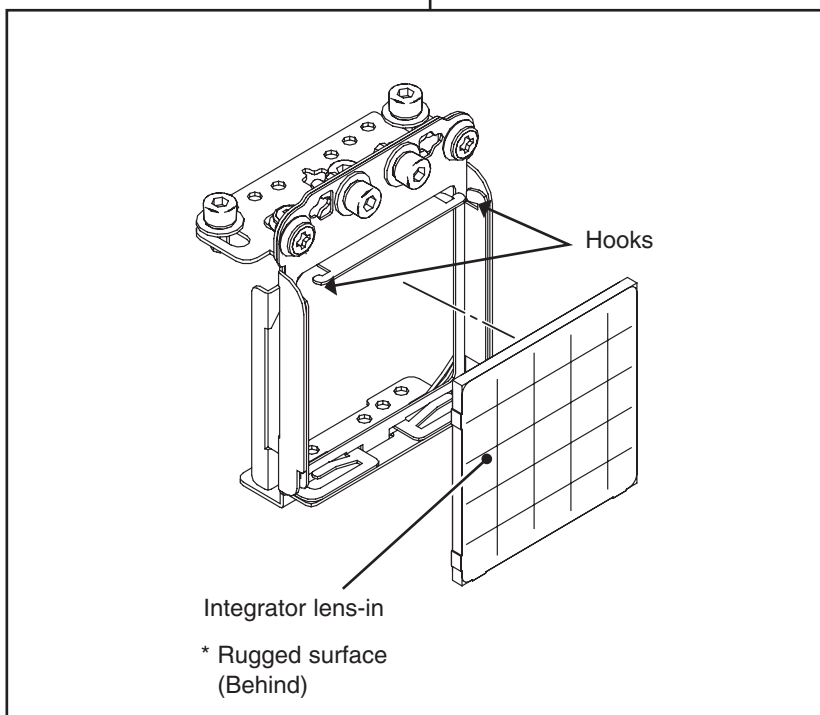
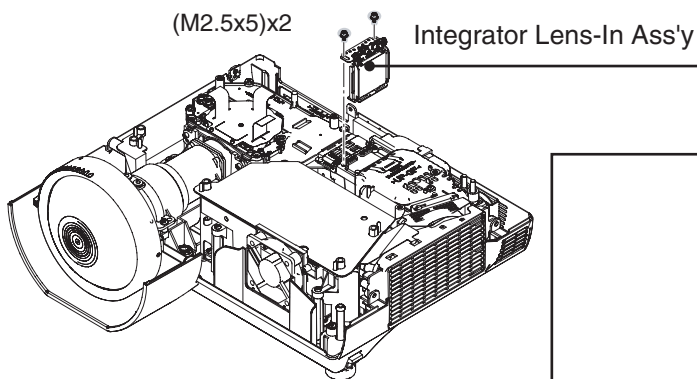
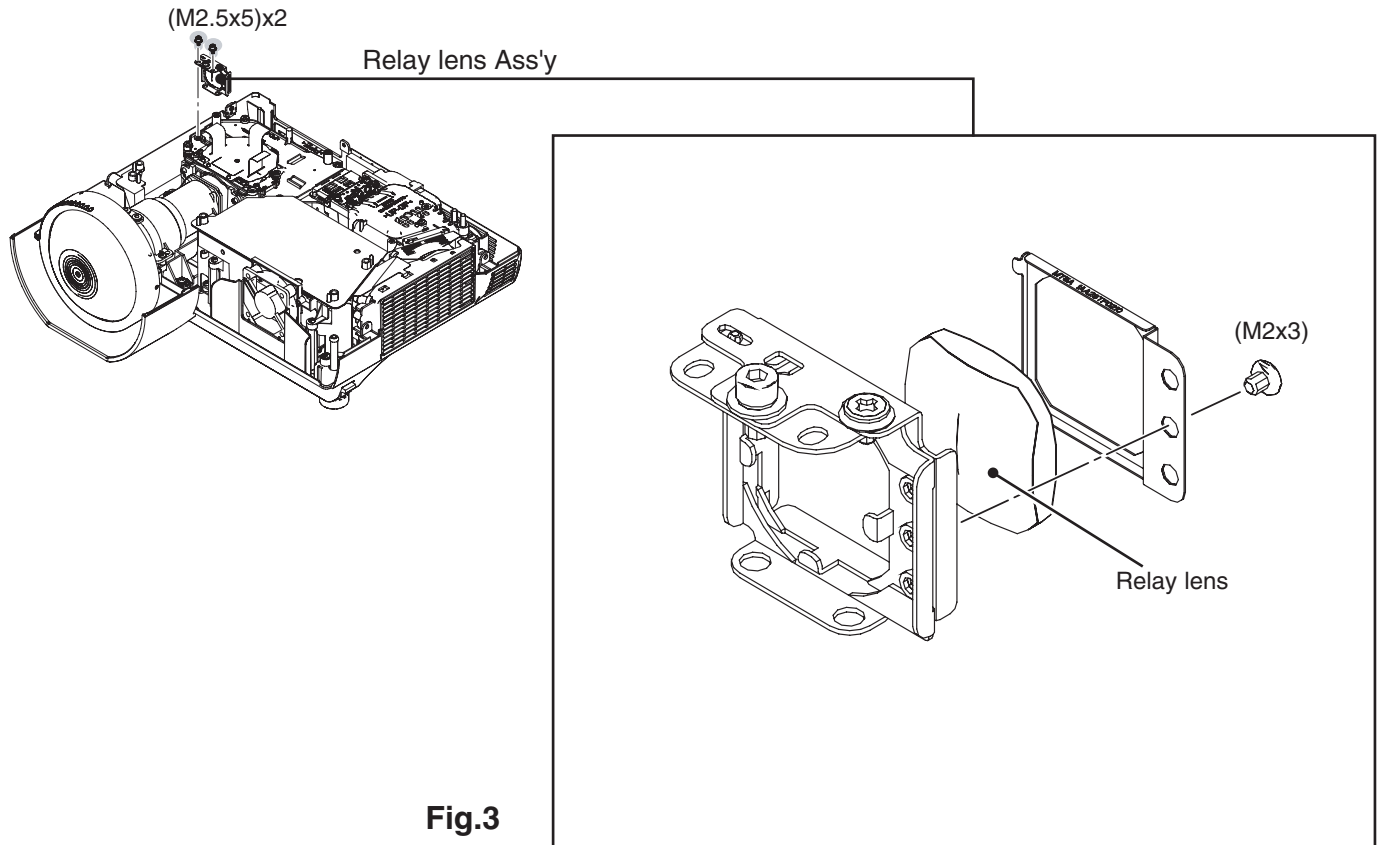
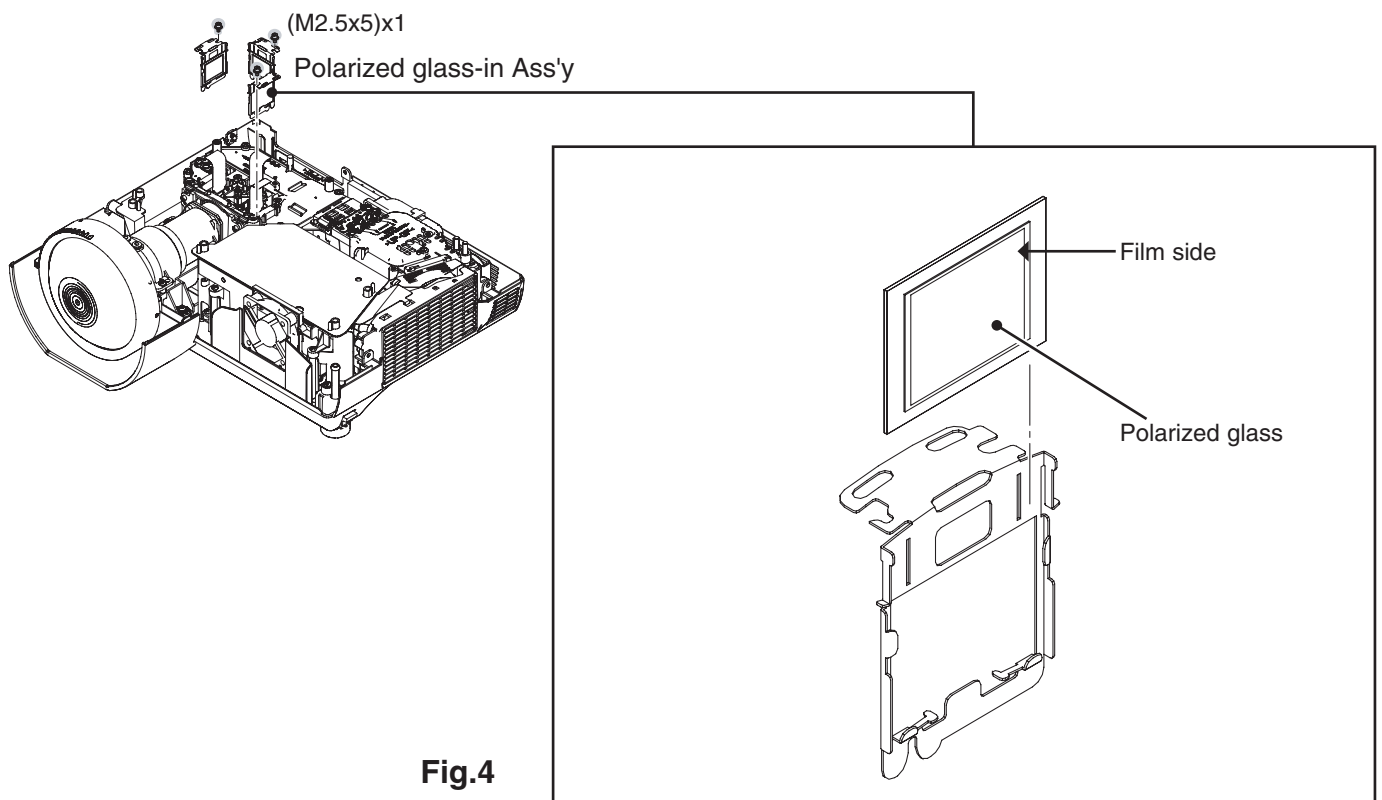


Fig.2

3 Relay lens disassembly



4 Polarized glass-in disassembly



5 LCD Panel/Prism Ass'y removal

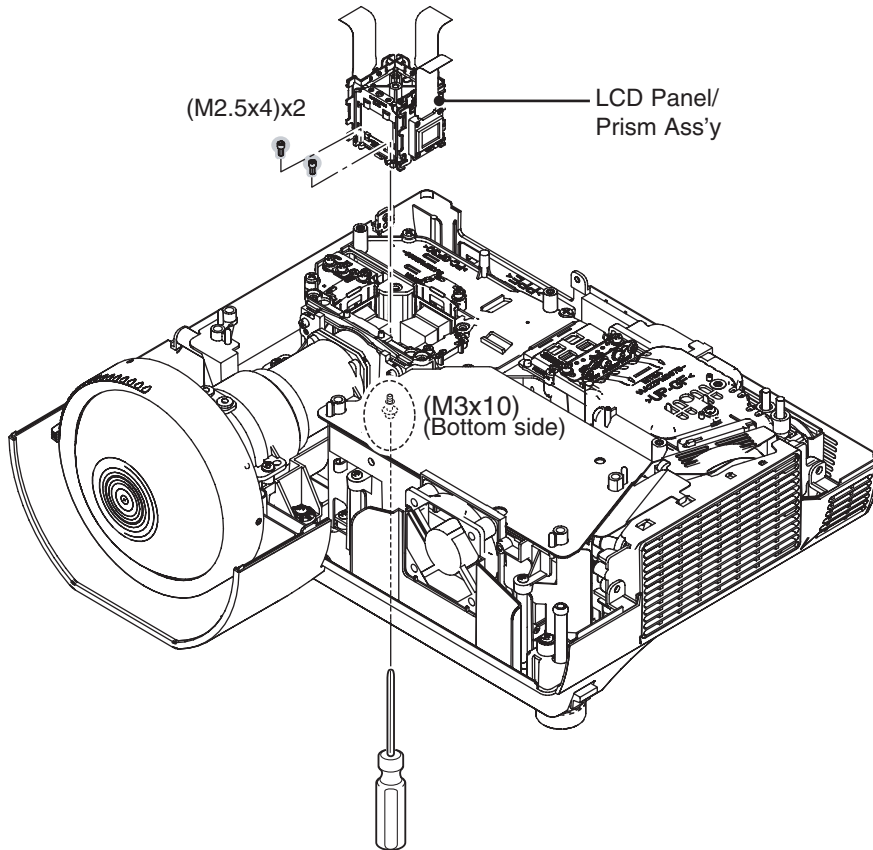


Fig.5

IMPORTANT NOTICE on LCD Panel/Prism Ass'y Replacement

LCD panels used for this model can not be replaced separately. Do not disassemble the LCD Panel/Prism Ass'y. These LCD panels are installed with precision at the factory. When replacing the LCD panel, should be replaced whole of the LCD panels and prism ass'y at once.

After replacing LCD Panel/Prism ass'y, please check the following points.

- Check that there is no color shading at the top, bottom, left or right of the screen. If there is, try to remove the shading following to the chapter "Optical Adjustment".
- Check the white balance. If it needs the adjustment, adjust the white balance following to the "White Balance Adjustment", "Gamma Adjustment" and "Common Centre Adjustment" in the chapter "Electrical Adjustment".
- Check the white uniformity on the screen.

If you find the color shading at the some part of the screen, it needs to take the color shading adjustment. This adjustment should be performed by a computer and it also requires a special software "Color Shading Correction". The software will be supplied separately and can be ordered as follows;

COLOR SHADING CORRECTION Ver. 4.00
Service Parts No. 645 075 9611

Panel Type Check

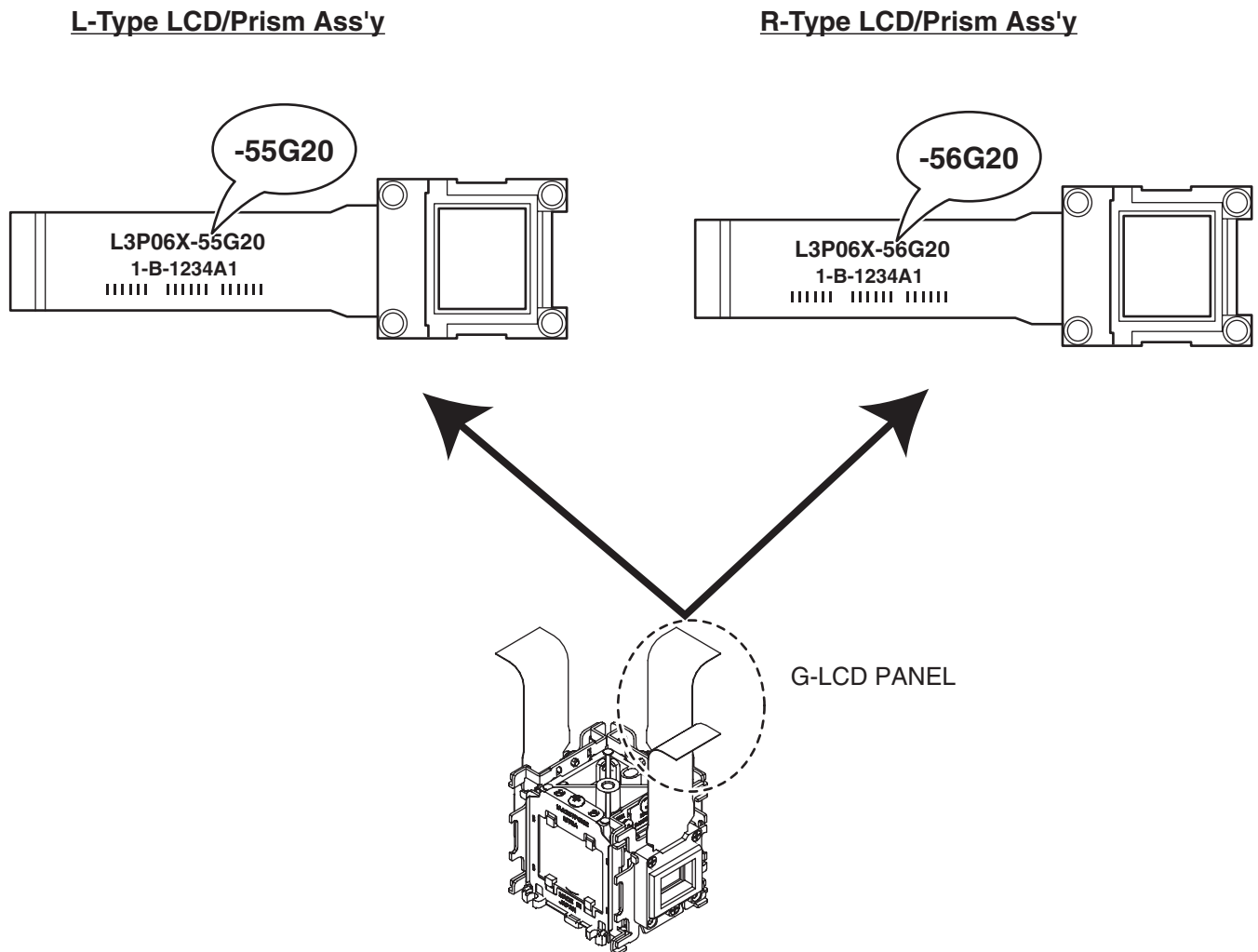
There are 2 types of LCD/Prism Ass'y for this model. Either L-Type or R-Type LCD /Prism Ass'y is used on the projector. Check which type of LCD/Prism Ass'y is used with the figure below.

When replacing the LCD/Prism Ass'y, you need to take "Panel Type Check and Setting" on the Electrical Adjustment for the replaced LCD/Prism Ass'y.

The gamma-characteristics is different between L-Type and R-Type LCD /Prism Ass'y.

How to check the type of LCD/Prism Ass'y

Check the printed number on the flat cable of the G-LCD Panel.



6 Polarized glass, Pre-polarized glass removal

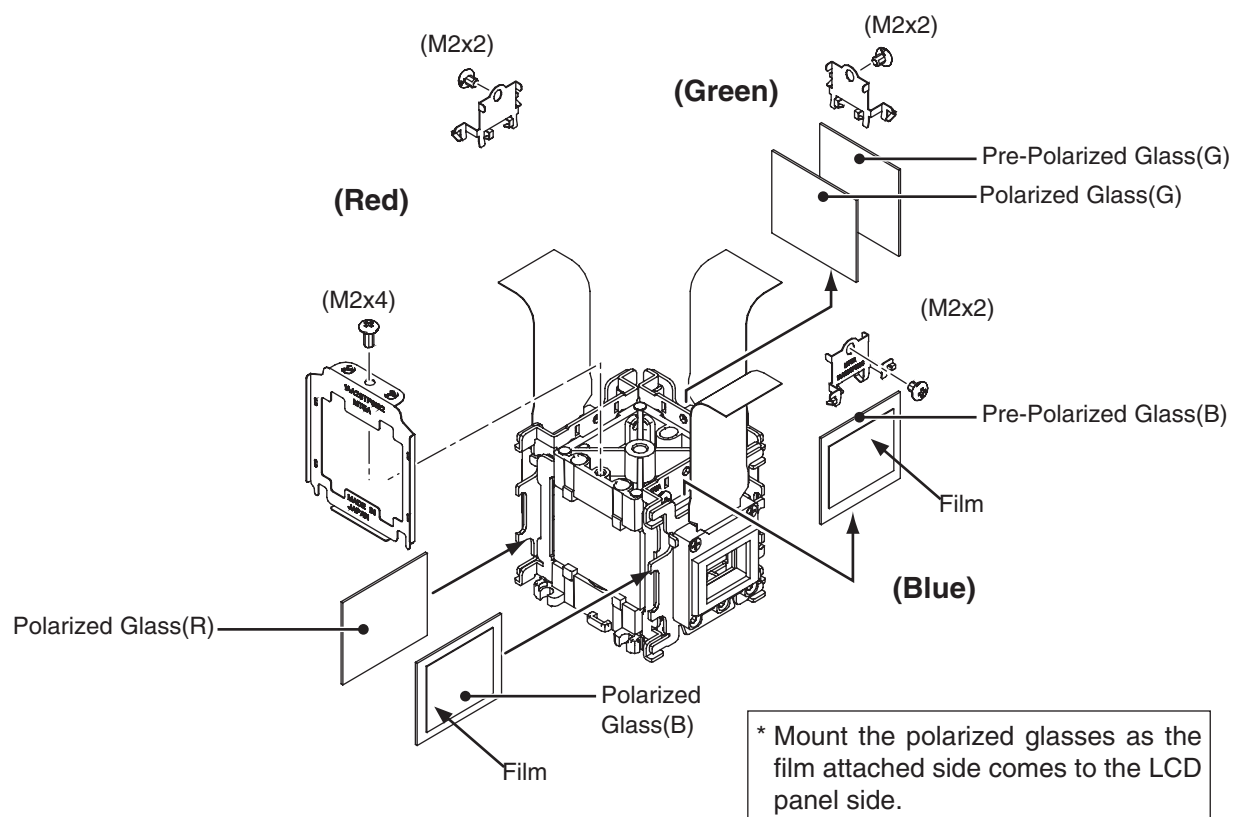


Fig.6

7 Optical Unit Top removal

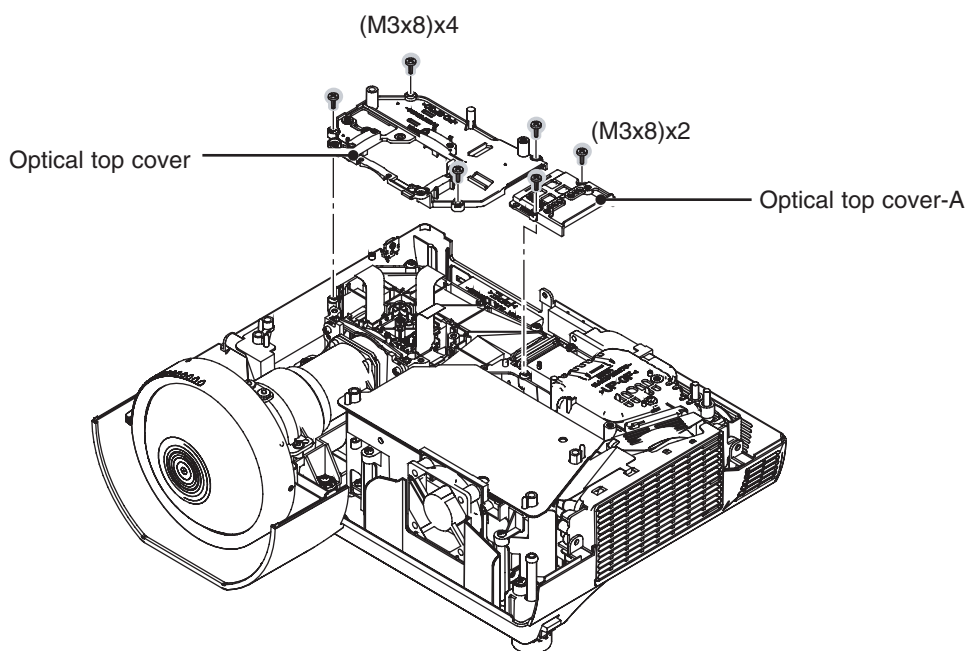
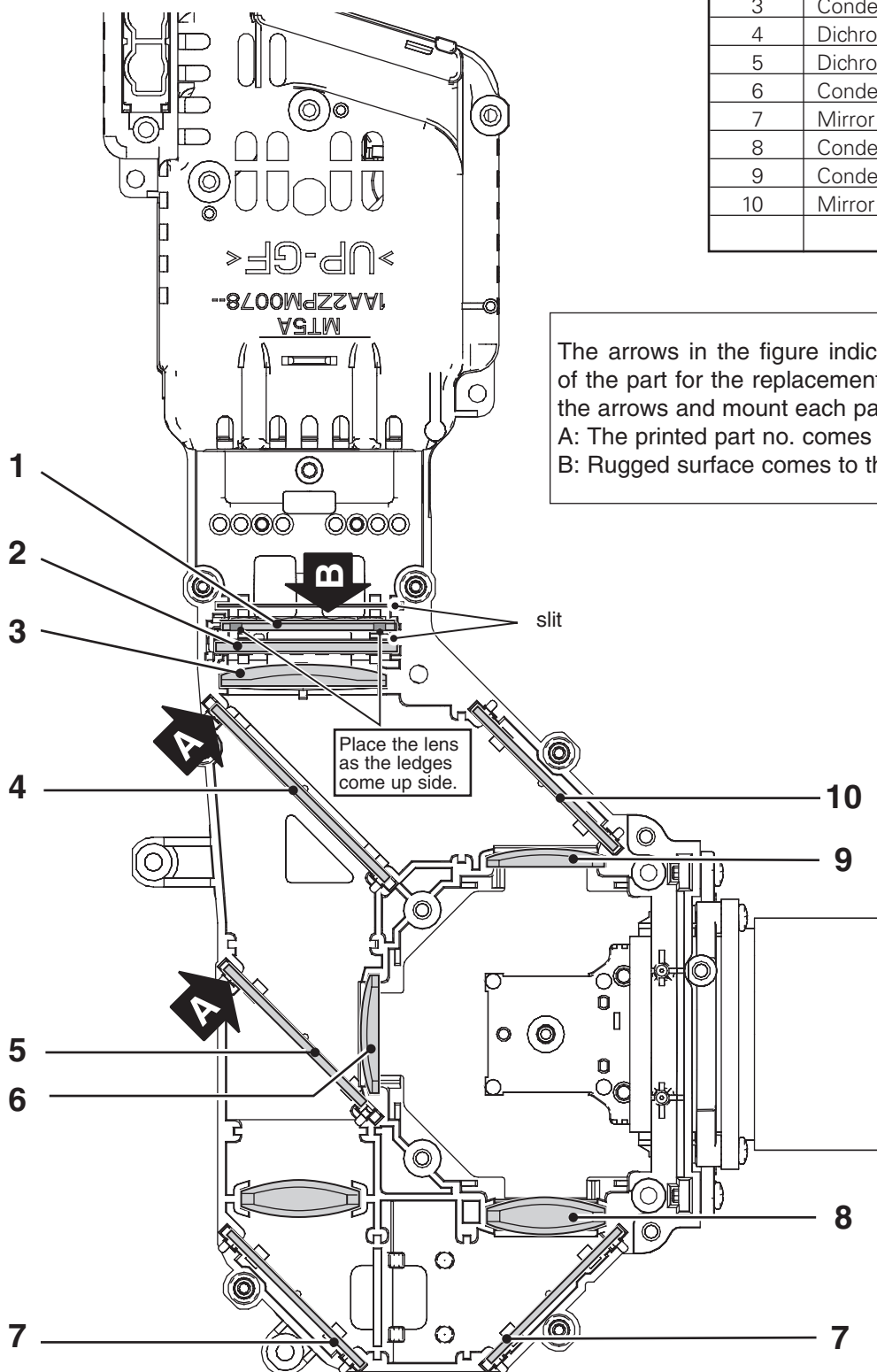


Fig.7

8 Locations and Directions

When mounting or assembling the optical parts in the optical unit, the parts must be mounted in the specified location and direction as shown in figure below.

No.	Parts Name
1	Integrator lens (OUT)
2	Prism beam splitter (PBS)
3	Condenser lens (OUT)
4	Dichroic mirror (B)
5	Dichroic mirror (G)
6	Condenser lens (G)
7	Mirror (R)
8	Condenser lens (R)
9	Condenser lens (B)
10	Mirror (B)



The arrows in the figure indicate the mount direction of the part for the replacement. Check the number on the arrows and mount each part according to its note;
A: The printed part no. comes to this side.
B: Rugged surface comes to this side.

Fig.8

Adjustments

Adjustments after Parts Replacement

● : Adjustment necessary ○ : Check necessary

		Disassembly / Replaced Parts							
		LCD/ Prism Ass'y	Integrator Lens (OUT)	Relay Lens (OUT)	Polarized glass			Power Board	Main Board
					R	G	B		
Optical Adjustments	Contrast Adjustment								
	R-Contrast adjustment				●				
	G-Contrast adjustment					●			
	B-Contrast adjustment						●		
	Integrator lens adjustment	○	●						
	Relay lens-out adjustment	○		●					
Electrical Adjustments	Panel type check and setting	●							●
	Fan control adjustment							●	●
	Pedestal adjustment [PC]								●
	Gain adjustment [PC]								●
	Pedestal adjustment [1080i]								●
	Gain adjustment [1080i]								●
	Gain adjustment [Video]								●
	Black reference adjustment								●
	Common center adjustment	●							●
	50% white adjustment [PC]	●							●
	White balance adjustment [PC]	○							○
	50% white adjustment [Video]	●							●
	White balance adjustment [Video]	○							○
	White uniformity adjustment	○							○

Optical Adjustments

Before taking optical adjustments below, remove the Cabinet Top following to the “Mechanical Disassembly”. Adjustments require a 2.0mm hex wrench and a slot screwdriver. When you adjust Integrator lens or Relay lens adjustment, you need to disconnect FPC cables of LCD panels on the main board. Optical adjustment requires a 2.0mm hex wrench and a slot screwdriver.
Note: Do not disconnect connectors on the main board, because the projector cannot turn on due to operate the power failure protection.



WARNING : USE UV RADIATION EYE AND SKIN PROTECTION DURING SERVICING

CAUTION: To prevent suffer of UV radiation, those adjustment must be completed within 25 minutes.

Contrast adjustment

[Before Adjustment]

- Input a 100% of black raster signal.

- 1 Loosen a screw **A** (Fig.1-1/1-2) on the polarized glass mounting base which you intend to adjust.
- 2 Turn the polarized glass mounting base as shown in Fig.1-1 to obtain the darkest brightness on the screen.
- 3 Tighten the screw **A** to fix the polarized glass mounting base.

Repeat steps 1 to 3 for remaining polarized glasses.

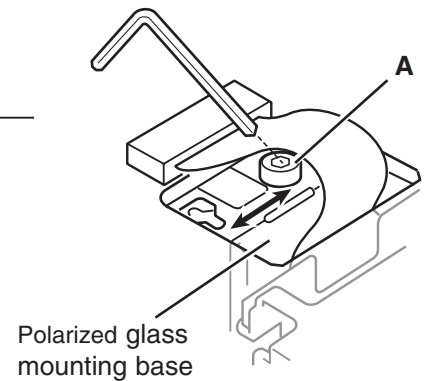


Fig.1-1

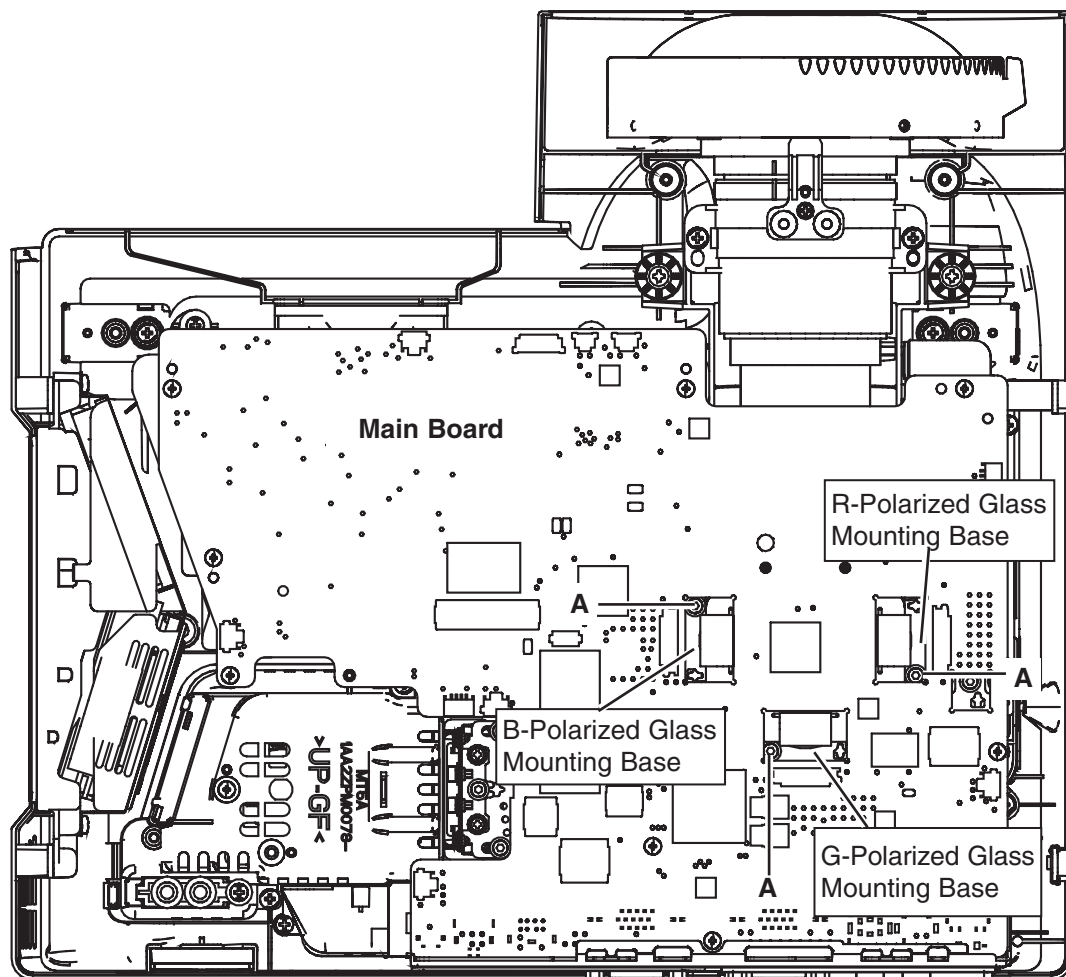


Fig.1-2

Integrator lens adjustment

- 1 Turn the projector on by a state of without FPC cables.
- 2 Project all of lights on the screen.
- 3 Adjust the adjustment base of integrator lens assy to make color uniformity in white.
 - 1) If the shading appears on the left or right of the screen as shown in **Fig.2-1**, loosen 1 screw **A**, and adjust the slot **B** to make color uniformity in white by using a slot screwdriver.
 - 2) If the shading appears on the top or bottom of the screen as shown in **Fig.2-2**, loosen 2 screws **C**, and adjust the slots **D** to make color uniformity in white by using a slot screwdriver
- 4 Tighten screws **A** and **C** to fix the Integrator lens unit.

Note:

The relay lens adjustment must be carried out after completing this adjustment.

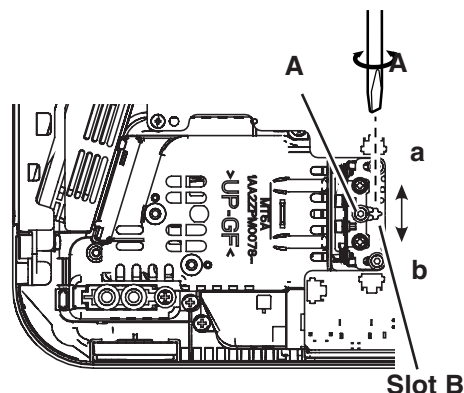
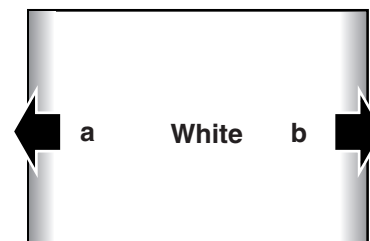


Fig.2-1
Moving of slot B

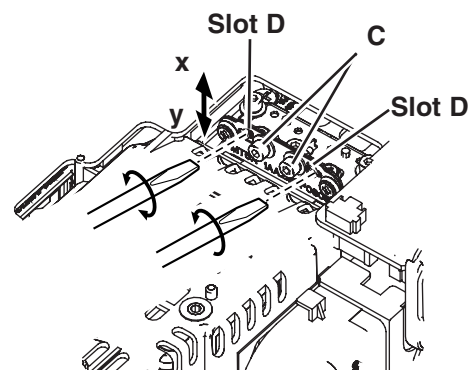
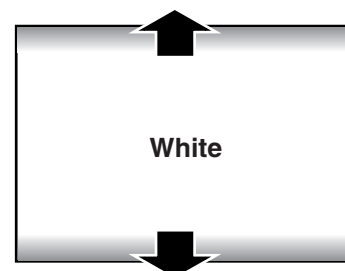
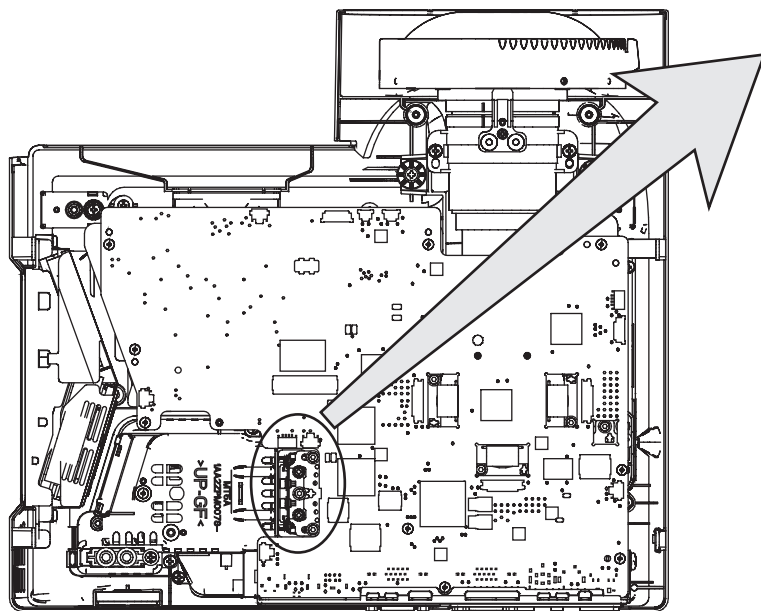


Fig.2-2
Moving of Slot D



Relay lens-Out adjustment

- 1 Turn the projector on by a state of without FPC cables.
- 2 Project all of lights on the screen.
- 3 Adjust the adjustment base of relay lens assy to make color uniformity in white.
If the shading appears on the left or right of the screen as shown in **Fig.3**, loosen 1 screw **A**, and adjust the slot **B** to make color uniformity in white by using a slot screwdriver.
- 4 Tighten the screws **A** to fix the relay lens unit.

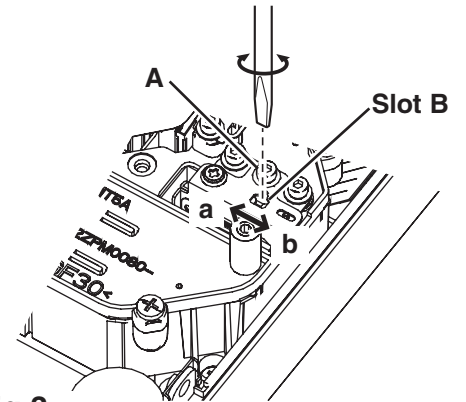
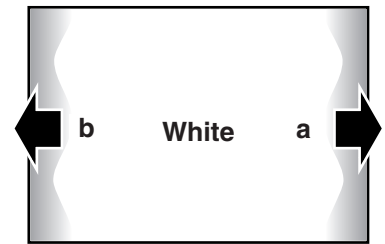
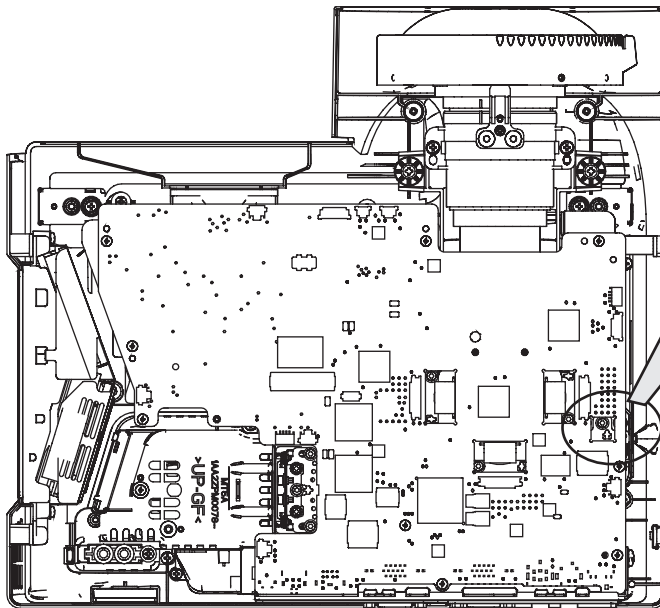


Fig.3
Moving of slot B

Electrical Adjustments

Service Adjustment Menu Operation

To enter the service mode

To enter the “Service Mode”, press and hold the **MENU button** on the remote control for more than 20 seconds. The service menu appears on the screen as follows.

To adjust service data

Select the adjustment group no. by pressing the **MENU button (increase)** or **KEYSTONE button (decrease)** on the remote control, and select the adjustment item no. by pressing the pointer **▲** or **▼ button**, and change the data value by pressing the **◀** or **▶ button**. Refer to the “Service Adjustment Data Table” for further description of adjustment group no., item no. and data value.

To exit the service mode

To exit the service mode, press the **ON-OFF button** on the remote control.

Service Mode		
Input	Video	
Group	No.	Data
0	0	32
Ver.	1	00

Group No. Item No. Data value

Memory IC (IC1371) Replacement

Memory IC on the main board stores the data for the service adjustments, and should not be replaced except for the case of defective device.

If replaced, the re-adjustments are required following to the “Electrical Adjustments”.

The data of lamp replacement counter is stored in the Memory IC.

Please note that the lamp replace counter will be reset when the memory IC is replaced.

(Lamp replace counter cannot be set to the previous value.)

● Caution to memory IC replacement

When memory IC is replaced with new one, the CPU writes down the default data of the service adjustments to the replaced IC as the mentioned on the service adjustment table. As these data are not the same

data as factory shipped data, it should be required to perform the re-adjustments following to the “Electrical Adjustments”.

Please note that in this case the lamp replace counter will be reset.

● Caution of Main Board replacement (in the case memory IC is not defective)

When the main board is replaced, memory IC should be replaced with the one on previous main board. After replacement, it should be required to perform the re-adjustments following to the “Electrical Adjustments”.

In this case, the lamp replace counter can be kept the value as before.

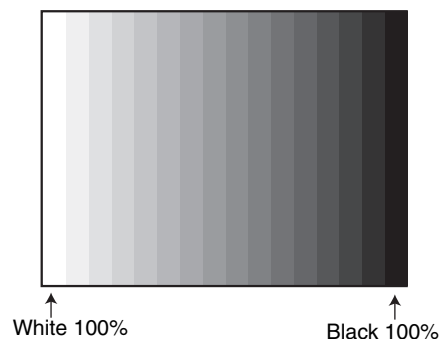
Circuit Adjustments

CAUTION: The each circuit has been made by the fine adjustment at factory. Do not attempt to adjust the following adjustments except requiring the readjustments in servicing otherwise it may cause loss of performance and product safety.

[Adjustment Condition]

- Input signal
 - Video signal 1.0Vp-p/75Ω terminated, 16 steps gray scale (Composite video signal)
 - Computer signal..... 0.7Vp-p/75Ω terminated, 16 steps gray scale pattern
 - Component Video signal..... 0.7Vp-p/75Ω terminated, 16 steps gray scale (Component video signal with 480p, 575p, 720p or 1080i format)
- Picture control mode..... "STANDARD" mode unless otherwise noted.

16 steps gray scale pattern



Note:

* Please refer to "Service Adjustment Menu Operation" for entering the service mode and adjusting the service data.

Output Voltage adjustment

After replacing the Power Board readjust the Output voltage adjustment as follows.

1. Connect a digital voltmeter to pins 1 (+) and 3 (-) of **K6D**.
2. Adjust the voltage by using **VR611** as following.

AC Input	Reading
230V	380V ±2V

Caution:

Be sure to connect the lamp when taking this adjustment.

* This adjustment is not required even if the power board is replaced because this adjustment is carried out before parts shipment.

1 Panel Type Check and Setting

1. Enter the service mode.
2. Panel Type Check

Select group no. "**290**", item no. "**0**". Check the data value as follows;

Data value: 0 For L-Type of LCD Panel

Data value: 20 For R-Type of LCD panel
3. Panel Type Setting

Select group no. "**290**", item no. "**1**" and change data value from 10 to 0 or 20 depending on your LCD Panel type. When the data value reaches 0 or 20, it returns to 10 quickly. The gamma-characteristics changes according to your selection.

* Refer to the item "LCD Panel/Prism Ass'y removal" for the panel type check.

2 Fan Control adjustment

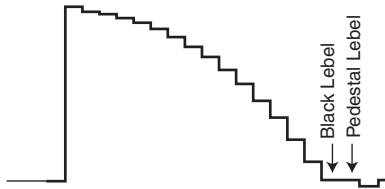
1. Set the lamp mode to "Normal" and then enter the service mode.
2. Connect a digital voltmeter to test point "**TPFANA**" (+) and chassis ground (-). Select group no. "**111**", item no. "**94**" and change data value to adjust voltage to be **5.2 ±0.1V**.
3. Connect a digital voltmeter to test point "**TPFANB**" (+) and chassis ground (-). Select item no. "**96**" and change data value to adjust voltage to be **5.2 ±0.1V**.



WARNING : USE UV RADIATION EYE AND SKIN PROTECTION DURING SERVICING

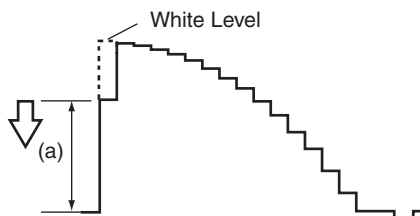
3 Pedestal adjustment [PC]

1. Receive the 16-step grey scale computer signal with **Computer2 [RGB]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "TPG1" (+) and chassis ground (-).
4. Select group no. "0", item no. "0" and change data value to adjust the pedestal level and black level to be the same level.
5. Connect an oscilloscope to test point "TPR1" (+) and chassis ground (-).
6. Select item no. "1" and change data value to adjust the pedestal level and black level to be the same level.
7. Connect an oscilloscope to test point "TPB1" (+) and chassis ground (-).
8. Select item no. "2" and change data value to adjust the pedestal level and black level to be the same level.



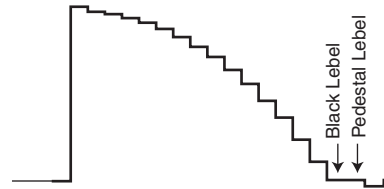
4 Gain adjustment [PC]

1. Receive the 16-step grey scale computer signal with **Computer2 [RGB]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "TPG1" (+) and chassis ground (-).
4. Select group no. "0", item no. "3" and adjust the amplitude "a" to be minimum by changing the Data value.
5. Connect an oscilloscope to test point "TPR1" (+) and chassis ground (-).
6. Select item no. "4" and adjust the amplitude "a" to be minimum by changing the Data value.
7. Connect an oscilloscope to test point "TPB1" (+) and chassis ground (-).
8. Select item no. "5" and adjust the amplitude "a" to be minimum by changing the Data value.



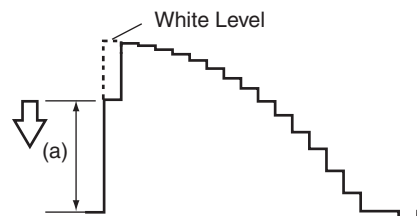
5 Pedestal adjustment [1080i]

1. Receive the 16-step grey scale component signal with **Video [Component1080i]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "TPG1" (+) and chassis ground (-).
4. Select group no. "0", item no. "0" and change data value to adjust the pedestal level and black level to be the same level.
5. Connect an oscilloscope to test point "TPR1" (+) and chassis ground (-).
6. Select group no. "0", item no. "1" and change data value to adjust the pedestal level and black level to be the same level.
7. Connect an oscilloscope to test point "TPB1" (+) and chassis ground (-).
8. Select group no. "0", item no. "2" and change data value to adjust the pedestal level and black level to be the same level.



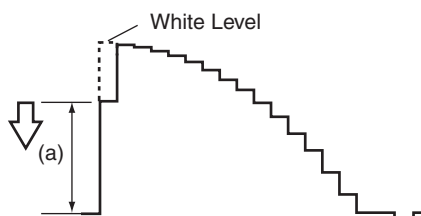
6 Gain adjustment [1080i]

1. Receive the 16-step grey scale component signal with **Video [Component1080i]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "TPG1" (+) and chassis ground (-).
4. Select group no. "9", item no. "0" and adjust the amplitude "a" to be minimum by changing the Data value.
5. Connect an oscilloscope to test point "TPR1" (+) and chassis ground (-).
6. Select item no. "1" and adjust the amplitude "a" to be minimum by changing the Data value.
7. Connect an oscilloscope to test point "TPB1" (+) and chassis ground (-).
8. Select item no. "2" and adjust the amplitude "a" to be minimum by changing the Data value.



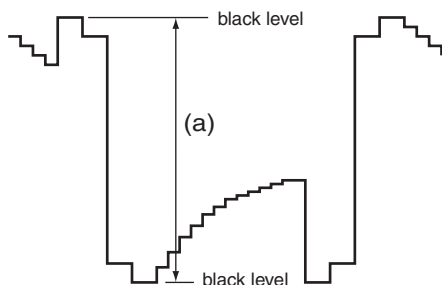
7 Gain adjustment [Video]

1. Receive the 16-step grey scale composite signal with **Video [Video]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "TPG1" (+) and chassis ground (-).
4. Select group no. "9", item no. "0" and adjust the amplitude "a" to be minimum by changing the Data value.
5. Connect an oscilloscope to test point "TPR1" (+) and chassis ground (-).
6. Select item no. "1" and adjust the amplitude "a" to be minimum by changing the Data value.
7. Connect an oscilloscope to test point "TPB1" (+) and chassis ground (-).
8. Select item no. "2" and adjust the amplitude "a" to be minimum by changing the Data value.



8 Black Reference adjustment

1. Receive the 16-step grey scale computer signal with **Computer2 [RGB]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "TPG1" (+) and chassis ground (-).
4. Select group no. "9", item no. "124" and change data value to adjust amplitude "a" to be $10.0 \pm 0.1V$.
5. Connect an oscilloscope to test point "TPR1" (+) and chassis ground (-).
6. Select item no. "125" and change data value to adjust amplitude "a" to be $10.0 \pm 0.1V$.
7. Connect an oscilloscope to test point "TPB1" (+) and chassis ground (-).
8. Select item no. "126" and change data value to adjust amplitude "a" to be $9.0 \pm 0.1V$.

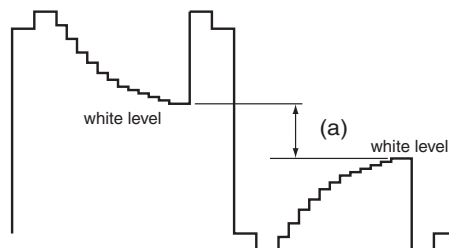


9 Common Center adjustment

1. Receive the 1 line black/white pattern computer signal with **Computer2 [RGB]** mode.
2. Enter the service mode.
3. Project only green light component to the screen.
4. Select group no. "9", item no. "127" and change data value to obtain the minimum flicker on the screen.
5. Project only red light component to the screen.
6. Select item no. "128" and change data value to obtain the minimum flicker on the screen.
7. Project only blue light component to the screen.
8. Select item no. "129" and change data value to obtain the minimum flicker on the screen.

10 50% White adjustment [PC]

1. Receive the 16-step grey scale computer signal with **Computer2 [RGB]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "TPG1" (+) and chassis ground (-).
4. Select group no. "9", item no. "6" and change data value to adjust amplitude "a" to be $1.6 \pm 0.1V$.



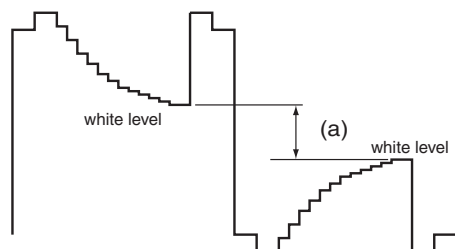
11 White Balance adjustment [PC]

1. Receive the 16-step gray scale computer signal with **Computer2 [RGB]** mode.
2. Enter the service mode, select group no. "9" item no. "7" (Red) or "8" (Blue), and change Data values respectively to make a proper white balance.

Confirm that the same white balance is obtained in video and computer input.

12 50% White adjustment [Video]

1. Receive the 16-step grey scale composite video signal with **Video [Video]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point “**TPG1**” (+) and chassis ground (-).
4. Select group no. “**9**”, item no. “**6**” and change data value to adjust amplitude “a” to be **2.2 ±0.1V**.



13 White Balance adjustment [Video]

1. Receive the 16-step grey scale composite video signal with **Video [Video]** mode.
2. Enter the service mode, select group no. “**9**” item no. “**7**” (Red) or “**8**” (Blue), and change Data values respectively to make a proper white balance.

Confirm that the same white balance is obtained in video and computer input.

NOTE ON WHITE UNIFORMITY ADJUSTMENT

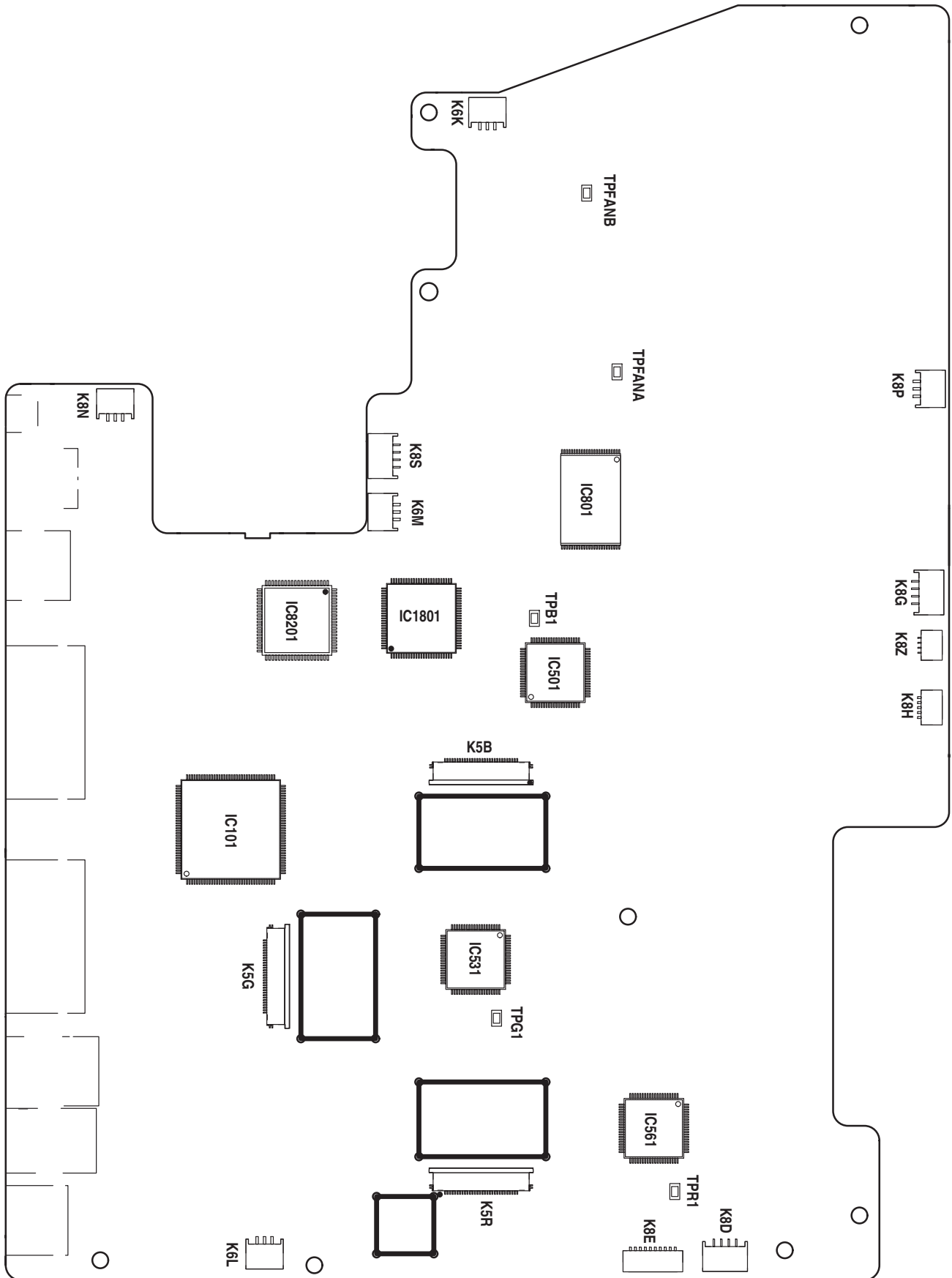
If you find the color shading on the screen, please adjust the white uniformity by using the proper computer and “Color Shading Correction” software supplied separately.

The software can be ordered as follows;

COLOR SHADING CORRECTION Ver. 4.00
Service Parts No. 645 075 9611

Test Points and Locations

MAIN BOARD



Service Adjustment Data Table

These initial values are the reference data written from the CPU ROM to memory IC when replaced new memory IC. The adjustment items indicated with “*” are required to readjust following to the “Electrical adjustments”. Other items should be used with the initial data value.

Item No.	NAME	Device	XGA						Range	Description
			PC	Component			Video			
				HDTV	480p	480i	NTSC	PAL		
Group 0	AD9883									
0	ADC G-OFFSET	AD9883	55	55						PC/AV 30KHz/AV 15KHz
1	ADC R-OFFSET	AD9883	55	55						PC/AV 30KHz/AV 15KHz
2	ADC B-OFFSET	AD9883	55	55						PC/AV 30KHz/AV 15KHz
3	ADC G-GAIN	AD9883	70	128						PC/AV 30KHz/AV 15KHz
4	ADC R-GAIN	AD9883	70	128						PC/AV 30KHz/AV 15KHz
5	ADC B-GAIN	AD9883	70	128						PC/AV 30KHz/AV 15KHz
6										
10	VCO 0 Thresh MAX	AD9883	32	32			32			Maximum frequency to select VCO 0
11	VCO 1 Thresh MAX	AD9883			58					Maximum frequency to select VCO 1
12	VCO 2 Thresh MAX	AD9883			110					Maximum frequency to select VCO 2
13										
20	CPC 0 Thresh MAX (VCO 0)	AD9883			0					Maximum frequency to select CPC0 at VCO 0
21	CPC 1 Thresh MAX (VCO 0)	AD9883			0					Maximum frequency to select CPC1 at VCO 0
22	CPC 2 Thresh MAX (VCO 0)	AD9883			15					Maximum frequency to select CPC2 at VCO 0
23	CPC 3 Thresh MAX (VCO 0)	AD9883			18					Maximum frequency to select CPC3 at VCO 0
24	CPC 4 Thresh MAX (VCO 0)	AD9883			23					Maximum frequency to select CPC4 at VCO 0
25	CPC 5 Thresh MAX (VCO 0)	AD9883			32					Maximum frequency to select CPC5 at VCO 0
26	CPC 6 Thresh MAX (VCO 0)	AD9883			255					Maximum frequency to select CPC6 at VCO 0
27										
30	CPC 0 Thresh MAX (VCO 1)	AD9883			0					Maximum frequency to select CPC0 at VCO 1
31	CPC 1 Thresh MAX (VCO 1)	AD9883			0					Maximum frequency to select CPC1 at VCO 1
32	CPC 2 Thresh MAX (VCO 1)	AD9883			0					Maximum frequency to select CPC2 at VCO 1
33	CPC 3 Thresh MAX (VCO 1)	AD9883			0					Maximum frequency to select CPC3 at VCO 1
34	CPC 4 Thresh MAX (VCO 1)	AD9883			0					Maximum frequency to select CPC4 at VCO 1
35	CPC 5 Thresh MAX (VCO 1)	AD9883			48					Maximum frequency to select CPC5 at VCO 1
36	CPC 6 Thresh MAX (VCO 1)	AD9883			65					Maximum frequency to select CPC6 at VCO 1
37										
40	CPC 0 Thresh MAX (VCO 2)	AD9883			0					Maximum frequency to select CPC0 at VCO 2
41	CPC 1 Thresh MAX (VCO 2)	AD9883			0					Maximum frequency to select CPC1 at VCO 2
42	CPC 2 Thresh MAX (VCO 2)	AD9883			0					Maximum frequency to select CPC2 at VCO 2
43	CPC 3 Thresh MAX (VCO 2)	AD9883			0					Maximum frequency to select CPC3 at VCO 2
44	CPC 4 Thresh MAX (VCO 2)	AD9883			0					Maximum frequency to select CPC4 at VCO 2
45	CPC 5 Thresh MAX (VCO 2)	AD9883			75					Maximum frequency to select CPC5 at VCO 2
46	CPC 6 Thresh MAX (VCO 2)	AD9883			95					Maximum frequency to select CPC6 at VCO 2
47										
50	CPC 0 Thresh MAX (VCO 3)	AD9883			0					Maximum frequency to select CPC0 at VCO 3
51	CPC 1 Thresh MAX (VCO 3)	AD9883			0					Maximum frequency to select CPC1 at VCO 3
52	CPC 2 Thresh MAX (VCO 3)	AD9883			0					Maximum frequency to select CPC2 at VCO 3
53	CPC 3 Thresh MAX (VCO 3)	AD9883			0					Maximum frequency to select CPC3 at VCO 3
54	CPC 4 Thresh MAX (VCO 3)	AD9883			0					Maximum frequency to select CPC4 at VCO 3
55	CPC 5 Thresh MAX (VCO 3)	AD9883			0					Maximum frequency to select CPC5 at VCO 3
56	CPC 6 Thresh MAX (VCO 3)	AD9883			140					Maximum frequency to select CPC6 at VCO 3
57										
60	PRECOAST (PC)	AD9883			3					
61	POSTCOAST(PC)	AD9883			3					
62	PRECOAST (PC Video)	AD9883			10					
63	POSTCOAST(PC Video)	AD9883			4					
64	PRECOAST (Component)	AD9883			10					Maximum frequency to select CPC6 at VCO 3
65	POSTCOAST(Component)	AD9883			4					Maximum frequency to select CPC7 at VCO 3
70	FREQ OFFSET	AD9882			0					Offset at DCLK more than 82MHz for AD9882
Group 1	UPD64012									
7	IMODE	uPD64012			0					
8	RGB_MIX	uPD64012			0					
9	AUTOCLR	uPD64012			1					
10	SIGDETLV	uPD64012			1					
11	SIGON	uPD64012			1					
12	SIGOFF	uPD64012			0					
13	TV50F	uPD64012			0					
14	TV60F	uPD64012			0					
15	SETINT	uPD64012			1					
16	SETPRG	uPD64012			0					
17	COLORM	uPD64012			0					
18	KILOFFT	uPD64012			0					
19	UNLINC	uPD64012			0					
20	DETOUT	uPD64012			3					
21	DETTIM	uPD64012			3					
22	CLKVA	uPD64012			1					
23	CLKKLL	uPD64012			40					
24	CODDEN	uPD64012			0					

Electrical Adjustments

Item No.	NAME	Device	XGA					Range	Description	
			PC	Component			Video			
				HDTV	480p	480i	NTSC			PAL
25	CRDLY	uPD64012			1					
26	PHBDL	uPD64012			0					
27	PHRDL	uPD64012			0					
28	CBOFS	uPD64012			0					
29	CROFS	uPD64012			0					
30	FRCENY	uPD64012			0					
31	FRCENC	uPD64012			0					
32	DLYCTL	uPD64012			8					
33	OUTBITW	uPD64012			0					
34	CLKOINV	uPD64012			1					
35	RDOSEL	uPD64012			0					
36	SQCBCHR	uPD64012			0					
37	ACTVH	uPD64012			128					
38	HPOSI	uPD64012			128					
39	HSPOS	uPD64012			132					
40	HSWID	uPD64012			64					
41	FSTAV	uPD64012			0					
42	VSPOS	uPD64012			64					
43	VSWID	uPD64012			2					
44	VBKFAL	uPD64012			260					
45	VBKRIS	uPD64012			16					
46	INBKENA	uPD64012			0					
47	YBLK	uPD64012			0					
48	SYNCSEL	uPD64012			1					
49	VDSEL	uPD64012			1					
50	HSPOL	uPD64012			1					
51	VSPOL	uPD64012			1					
52	FIELDPOL	uPD64012			1					
53	INHBKST	uPD64012			715					
54	INHBKEN	uPD64012			853					
55	INVBKST	uPD64012			260					
56	INVBKLEN	uPD64012			16					
57	FLDTHR	uPD64012			0					
58	FILDIV	uPD64012			0					
59	TSRTCNV	uPD64012			1					
			VIDEO NTSC/PAL	S-VIDEO NTSC/PAL	YCBCR 480i/575i	SCART 480i/575i				
60	R_GAIN	uPD64012	22	22	22	10				
61	G_GAIN	uPD64012	22	22	22	17				
62	B_GAIN	uPD64012	22	22	22	10				
63	FLTSEL	uPD64012			0					
64	PEDIIRS2	uPD64012			0					
65	SBCNT2	uPD64012			32					
66	CBGAIN	uPD64012			32					
67	CRGAIN	uPD64012			32					
68	YGCAUTO	uPD64012			0					
69	YGCVAL	uPD64012			58					
70	YGCOFF	uPD64012			0					
71	YGCMVS	uPD64012			0					
72	YPGAINS	uPD64012			2					
73	YGCAVAL	uPD64012			9					
74	MAXIIRS	uPD64012			0					
75	PEDIIRS	uPD64012			0					
76	YGCMODE1	uPD64012			0					
77	YGCMODE2	uPD64012			0					
78	YGCIRS	uPD64012			1					
79	YCSV	uPD64012			0					
80	YCOMA	uPD64012			2					
81	YCOMB	uPD64012			2					
82	YCSHY	uPD64012			0					
83	YCSHC	uPD64012			0					
84	COBPFOFF	uPD64012			0					
85	YCSCOF	uPD64012			4					
86	YCSSY	uPD64012			0					
87	VLTYPE	uPD64012			1					
88	YCSCC	uPD64012			0					
89	VAPONV	uPD64012			0					
90	VAPG	uPD64012			4					
91	VAPI	uPD64012			16					
92	PALCFIL	uPD64012			0					
93	YCSY2F	uPD64012			3					
94	TRF	uPD64012			0					
95	TRGAIN	uPD64012			0					
96	TRPAL	uPD64012			0					
97	APCGAIN	uPD64012			1					
98	ACCGAIN	uPD64012			1					
99	ACCLIM	uPD64012			8					
100	STNTSCM	uPD64012			0					
101	STPALD	uPD64012			0					

Electrical Adjustments

Item No.		NAME	Device	XGA					Range	Description	
				PC	Component			Video			
					HDTV	480p	480i	NTSC			PAL
				VIDEO	S-VIDEO	YCBCR	SCART				
				NTSC / PAL	NSTC / PAL	480i / 575i	480i / 575i				
	102	SBCNT	uPD64012	109 / 111	106 / 108	119 / 118	118 / 118				
	103	SBCLRU	uPD64012	128	128	128	141				
	104	SBCLRV	uPD64012	128	128	128	141				
	105	YCONR	uPD64012			0					
	106	CCONR	uPD64012			0					
	107	YCORB	uPD64012			0					
	108	YCOREN	uPD64012			1					
	109	YCORH	uPD64012			0					
	110	CCORB	uPD64012			0					
	111	CCOREN	uPD64012			0					
	112	LTIGAIN	uPD64012			0					
	113	CTIGAIN	uPD64012			0					
	114	LTITAP	uPD64012			2					
	115	LTICORE	uPD64012			3					
	116	CTITAP	uPD64012			2					
	117	CTICORE	uPD64012			3					
	118	SHPGAIN	uPD64012			176					
	119	SHPCCHAR	uPD64012			2					
	120	SHPCORE	uPD64012			0					
	121	BRIGHT	uPD64012			512					
	122	OFRY	uPD64012			32					
	123	COLORG	uPD64012			128					
	124	HUE	uPD64012			128					
	125	CONT	uPD64012			128					
	126	APLWID	uPD64012			0					
	127	APLCOE	uPD64012			5					
	128	DCREGAIN	uPD64012			8					
	129	BLENGAIN	uPD64012			16					
	130	ABLENST	uPD64012			0					
	131	BLEXST	uPD64012			0					
	132	GAMGAIN	uPD64012			0					
	133	AGAMGAIN	uPD64012			0					
	134	GAMST	uPD64012			255					
	135	BLENCTL	uPD64012			0					
	136	YGACTL	uPD64012			0					
	137	ACLSEN	uPD64012			0					
	138	ACLST	uPD64012			255					
	139	YVBCTL	uPD64012			1					
	140	CRLPF	uPD64012			1					
	141	CBLPF	uPD64012			1					
	142	KILLV	uPD64012			8					
	143	KILLVCTL	uPD64012			9					
	144	VLIM	uPD64012			0					
	145	VDCOR	uPD64012			0					
	146	LPFTHR	uPD64012	SCART: 1 COMPOSET/SVIDEO:0							
	147	ADCLK	uPD64012	SCART: 2 COMOSITE/SVIDEO:2							
Group 9	PANEL CONTROL										
	0	G-SubGain	L3E7072K0A	512	640	525			When adjusting G, the value of R and B changes together		
	1	R-SubGain	L3E7072K0A	512	640	525					
	2	B-SubGain	L3E7072K0A	512	640	525					
	3	G-SubBright	L3E7072K0A			0					
	4	R-SubBright	L3E7072K0A			0					
	5	B-SubBright	L3E7072K0A			0					
	6	G-GammaShift	L3E7072K0A	512		512			When adjusting G, the value of R and B changes together DVI links PC, HDCP links AV		
	7	R-GammaShift	L3E7072K0A	512		512					
	8	B-GammaShift	L3E7072K0A	512		512					
	9	R_ReferH(NRS Level)	L3E7072K0A		Normal:650/Rear:650				When adjusting G, the value of R and B changes together		
	10	G_ReferH(NRS Level)	L3E7072K0A		Normal:650/Rear:650						
	11	B_ReferH(NRS Level)	L3E7072K0A		Normal:650/Rear:650						
	12	R_ReferL(NRS Level)	L3E7072K0A		Normal:250/Rear:250				When adjusting G, the value of R and B changes together		
	13	G_ReferL(NRS Level)	L3E7072K0A		Normal:250/Rear:250						
	14	B_ReferL(NRS Level)	L3E7072K0A		Normal:250/Rear:250						
	15	DXOUTR (H-Screen Position)	L3E7072K0A			462			Auto Ghost adjustment		
	16	DXOUTG (H-Screen Position)	L3E7072K0A			462			Auto Ghost adjustment		
	17	DXOUTB (H-Screen Position)	L3E7072K0A			462			Auto Ghost adjustment		
	18	ENBX*R Phase	L3E7072K0A			4					
	19	ENBX*G Phase	L3E7072K0A			4					
	20	ENBX*B Phase	L3E7072K0A			4					
	21	ENBX*(RGB) Width	L3E7072K0A			3					
	22	h_change_pos(CLY H-Position)	L3E7072K0A			15					
	23	DYOUTR (V-Screen Position)	L3E7072K0A			1					
	24	DYOUTG (V-Screen Position)	L3E7072K0A			1					
	25	DYOUTB (V-Screen Position)	L3E7072K0A			1					
	26	dxout_base_pos	L3E7072K0A			1			Auto Ghost adjustment		
	27	sh_base_pos_b(SH Position)	L3E7072K0A			546					
	28	NRG Position	L3E7072K0A			54					

Electrical Adjustments

Item No.	NAME	Device	XGA					Range	Description	
			PC	Component			Video			
				HDTV	480p	480i	NTSC			PAL
	29	NRG Width	L3E7072K0A			116				
	30	OSD (Insert Position)	L3E7072K0A			2				
	31	OSD (pattern Selection)	L3E7072K0A			0				
	32	GAMMA(ON/OFF)	L3E7072K0A			1				
	33	ref_gate_pos(NRS Position)	L3E7072K0A			40				
	34	ref_gate_dur(NRS Width)	L3E7072K0A			174				
	35	gray_on	L3E7072K0A			7				
	36	Other Correction	L3E7072K0A			0				
	37	Whole Area Crosstalk Corr. EN	L3E7072K0A			0				
	38	DC Offset Corr. for V-line Shade E	L3E7072K0A			0				
	39	Offset Corr. For V-line Shade EN	L3E7072K0A			Normal:0/Rear:1				
	40	V-Line Shade BLSP_EN	L3E7072K0A			Normal:1/Rear:1				
	41	Sequential Ghost Correction EN	L3E7072K0A			Normal:1/Rear:1				
	42	Block Ghost Correction EN	L3E7072K0A			0				
	43	Reverse Ghost Correction EN	L3E7072K0A			0				
	44	Back Porch Crosstalk Corr. EN	L3E7072K0A			0				
	45	R_base_pos	L3E7072K0A			4				When adjusting G, the value of R and B changes together
	46	G_base_pos	L3E7072K0A			4				
	47	B_base_pos	L3E7072K0A			4				
	48	RGB_adjust	L3E7072K0A			0				
	49	RGB_level	L3E7072K0A			0				
	50	V-Line Shade Corr. Set [R0]	L3E7072K0A			7				
	51	V-Line Shade Corr. Set [R1]	L3E7072K0A			3				
	52	V-Line Shade Corr. Set [R2]	L3E7072K0A			1				
	53	V-Line Shade Corr. Set [R3]	L3E7072K0A			0				
	54	V-Line Shade Corr. Set [R4]	L3E7072K0A			253				
	55	V-Line Shade Corr. Set [G0]	L3E7072K0A			7				
	56	V-Line Shade Corr. Set [G1]	L3E7072K0A			3				
	57	V-Line Shade Corr. Set [G2]	L3E7072K0A			1				
	58	V-Line Shade Corr. Set [G3]	L3E7072K0A			0				
	59	V-Line Shade Corr. Set [G4]	L3E7072K0A			253				
	60	V-Line Shade Corr. Set [B0]	L3E7072K0A			7				
	61	V-Line Shade Corr. Set [B1]	L3E7072K0A			3				
	62	V-Line Shade Corr. Set [B2]	L3E7072K0A			1				
	63	V-Line Shade Corr. Set [B3]	L3E7072K0A			0				
	64	V-Line Shade Corr. Set [B4]	L3E7072K0A			253				
	65	Ghost_R_pos (Sequence)	L3E7072K0A			4				When adjusting G, the value of R and B changes together
	66	Ghost_G_pos (Sequence)	L3E7072K0A			4				
	67	Ghost_B_pos (Sequence)	L3E7072K0A			4				
	68	Ghost_R_center	L3E7072K0A			5				When adjusting G, the value of R and B changes together
	69	Ghost_R_start	L3E7072K0A			128				
	70	Ghost_R_end	L3E7072K0A			128				
	71	Ghost_G_center	L3E7072K0A			5				When adjusting G, the value of R and B changes together
	72	Ghost_G_start	L3E7072K0A			128				
	73	Ghost_G_end	L3E7072K0A			128				
	74	Ghost_B_center	L3E7072K0A			5				When adjusting G, the value of R and B changes together
	75	Ghost_B_start	L3E7072K0A			128				
	76	Ghost_B_end	L3E7072K0A			128				
	77	R-Block Ghost	L3E7072K0A			3				When adjusting G, the value of R and B changes together
	78	G-Block Ghost	L3E7072K0A			3				
	79	B-Block Ghost	L3E7072K0A			3				
	80	R_base_level (Block)	L3E7072K0A			0				Reserved
	81	G_base_level (Block)	L3E7072K0A			0				Reserved
	82	B_base_level (Block)	L3E7072K0A			0				Reserved
	83	Ghost_R_pos (Reverse)	L3E7072K0A			3				When adjusting G, the value of R and B changes together
	84	Ghost_G_pos (Reverse)	L3E7072K0A			3				
	85	Ghost_B_pos (Reverse)	L3E7072K0A			3				
	86	R_base_level (Reverse)	L3E7072K0A			0				
	87	G_base_level (Reverse)	L3E7072K0A			0				
	88	B_base_level (Reverse)	L3E7072K0A			0				
	89	C_TALK R	L3E7072K0A			1022				
	90	C_TALK G	L3E7072K0A			1022				
	91	C_TALK B	L3E7072K0A			1022				
	92	C_TALK_R_level	L3E7072K0A			730				
	93	C_TALK_G_level	L3E7072K0A			730				
	94	C_TALK_B_level	L3E7072K0A			730				
	95	C_TALK_R_CENT	L3E7072K0A			5				When adjusting G, the value of R and B changes together
	96	C_TALK_R_START	L3E7072K0A			128				
	97	C_TALK_R_END	L3E7072K0A			128				
	98	C_TALK_G_CENT	L3E7072K0A			5				When adjusting G, the value of R and B changes together
	99	C_TALK_G_START	L3E7072K0A			128				
	100	C_TALK_G_END	L3E7072K0A			128				
	101	C_TALK_B_CENT	L3E7072K0A			5				When adjusting G, the value of R and B changes together
	102	C_TALK_B_START	L3E7072K0A			128				
	103	C_TALK_B_END	L3E7072K0A			128				
	104	lccom_correct_select	L3E7072K0A			16				
	105	Hori Start	L3E7072K0A			268				
	106	Vert Start	L3E7072K0A			10				
	107	Hori End	L3E7072K0A			1291				
	108	Vert End	L3E7072K0A			777				

Electrical Adjustments

Item No.	NAME	Device	XGA						Range	Description
			PC	Component			Video			
				HDTV	480p	480i	NTSC	PAL		
	109	R_MIN	L3E7072K0A			335				
	110	R_MID2	L3E7072K0A			532				
	111	R_MID1	L3E7072K0A			645				
	112	R_MAX	L3E7072K0A			695				
	113	G_MIN	L3E7072K0A			335				
	114	G_MID2	L3E7072K0A			532				
	115	G_MID1	L3E7072K0A			645				
	116	G_MAX	L3E7072K0A			695				
	117	B_MIN	L3E7072K0A			335				
	118	B_MID2	L3E7072K0A			532				
	119	B_MID1	L3E7072K0A			645				
	120	B_MAX	L3E7072K0A			695				
	121	G_V1 (DAC)	M62398FP			100				
	122	R_V1 (DAC)	M62398FP			100				
	123	B_V1 (DAC)	M62398FP			100				
	124	REF_G (DAC)	M62398FP			203				
	125	REF_R (DAC)	M62398FP			203				
	126	REF_B (DAC)	M62398FP			198				
	127	G_LCCOM (L3E06100)	L3E6100			105				
	128	R_LCCOM (L3E06100)	L3E6100			105				
	129	B_LCCOM (L3E06100)	L3E6100			105				
	130	SyncPosition	L3E7072K0A			0				Link with 9-131
	131	SyncVideoPosition	L3E7072K0A			0				Link with 9-130
	132	Color Shading SW	L3E7072K0A			1				Color Shading Correction, 0: Off, 1: On (Not memorized)
Group 100	OPTION (Lamp Time, Service Port etc)									
	1	RS232C Baudrate	PW185B			0				0 : 19200bps 1: 9600bps
	2	PJLink Enable	MCI			1			0-1	0:Disable 1:Enable
	5	PW Debug Command Enable	PW185B			1			0-1	0:Disable 1:Enable(Sanyo Serial Command Disable)(Not memorized)
	6	Device Refresh Disable	PW185B			0			0-1	0:Enable 1:Disable(Not memorized)
	20	Projector Time Reset	PW185B			0			0-20	Resets Projector time when the value is set to 10.
	21	Lamp Warning Time (NORMAL)	PW185B			2000			0-10000	Normal lamp warning time
	22	Lamp Warning Time (ECO)	PW185B			3000			0-10000	Eco lamp warning time
	30	Lamp life test enable	PW185B			0			0-1	0:Disable 1:Enable For safety test purpose
	31	Lamp On time for life test	PW185B			1			1-720	For test purpose
	32	Lamp Off time for life test	PW185B			3			1-720	For test purpose
	33	Lamp total time for life test	PW185B			0			0-32767	For test purpose
	40	Memory viewer please wait display disable	PW185B			0			0-1	0: disable 1:Enable, Prohibit a part of Memory Viewer function
	50	RC Mode	PW185			0			0-1	
Group 101	OPTION (Signal Processing)									
	2	Shoot Out Mode	PW185B			0				1:Shoot Out Mode Enable0: Disable
	3	Frame Lock SW	PW185B			0				0:Not V-Sync, 1:V-Sync
	5	Non Brand	PW185B			0				0:Normal1:Non Brand
	6	Monitor Error Count	PW185B			5				Threshold value of Monitor error count
	7	CABLE SW	PW185B			0				Cable switch
Group 103	PW185B Image Control									
				PC	COMPONENT			VIDEO		
				PC	HDTV	480i	VIDEO	SCART		
	0	Center Contrast	PW185B	512	512	512	512	512		PW185B CONTRAST Center adjustment
	1	Center Brightness	PW185B	512	512	512	512	512		PW185B BRIGHTNESS Center adjustment
	2	Center Color	PW185B	512	475	475	475	425		PW185B COLOR Center adjustment
	3	Center Tint	PW185B	90	82	82	82	82		PW185B TINT Center adjustment
	4	Center Sharpness	PW185B	16	16	16	16	16		PW185B SHARPNESS Center adjustment
	5	Alpha Contrast	PW185B	40	40	40	40	40		PW185B CONTRAST Range adjustment
	6	Alpha Brightness	PW185B	140	140	140	140	140		PW185B BRIGHTNESS Range adjustment
	7	Alpha Color	PW185B	70	70	70	70	70		PW185B COLOR Range adjustment
	8	Alpha Tint	PW185B	10	10	10	10	10		PW185B TINT Range adjustment
	9	Alpha Sharpness	PW185B	10	10	10	10	10		PW185B SHARPNESS Range adjustment
Group 104	PW185B Auto PC Adjust Control									
	0	AutoPCAdjustEnable	PW185B			0			0-1	0:Auto1:Prohibit Auto PC Adj.
	1	Frequency Step	PW185B			2			0-3	
	2	Frequency Threshold	PW185B			5			0-10	
	3	Fine Phase	PW185B			1			0-1	
	4	BLKDET	PW185B			1			0-3	Black Level Detecte Area
	5	PHASEMSK	PW185B			0			0-3	Phase Detection Filter0:Effect all bits1:Disable lower 1 bit2:Disable lower 2 bits 3:Disable lower 3 bits
Group 105	Custom Mode									
	0	Connecting to H/V	PW185B			0			0-1	Link H and V, 1: On, 0: Off
	1	Vertical Scaler	PW185B			100			0-200	Vertical Scaler Edit (Unit %)
	2	Vertical Position	PW185B			100			0-200	Vertical Position Correction (Unit %)
	3	RESET/STORE	PW185B			0			0-1	Reset Vertical Aspect 0:Reset, 1:Save0
	4	Horizontal Scaler	PW185B			100			0-200	Horizontal Scaler Edit (Unit %)
	5	Horizontal Position	PW185B			100			0-200	Horizontal Position Correction (Unit %)
	6	RESET/STORE	PW185B			0			0-1	Reset Horizontal Aspect 0:Reset, 1:Save0
	7	CUSTOM ON/OFF	PW185B			0			0-1	Custom function On/Off 1: On, 0:Off
Group 110	Dimmer Processing for Ballast type									
	0	DIMMER_CTRL_LEVEL1	PW185B			14				Luminance Level1:Dimmer Level1 when less than the value. Link with 100-7
	1	DIMMER_CTRL_LEVEL2	PW185B			27				Luminance Level2:Dimmer Level2 when less than the value.

Electrical Adjustments

Item No.	NAME	Device	XGA					Range	Description	
			PC	Component			Video			
				HDTV	480p	480i	NTSC			PAL
	2	DIMMER_CTRL_LEVEL3	PW185B			40				Luminance Level3:Dimmer Level3 when less than the value.
	3	DIMMER_CTRL_LEVEL4	PW185B			53				Luminance Level4:Dimmer Level4 when less than the value.
	4	DIMMER_CTRL_LEVEL5	PW185B			66				Luminance Level5:Dimmer Level5 when less than the value.
	5	DIMMER_CTRL_LEVEL6	PW185B			79				Luminance Level6:Dimmer Level6 when less than the value.
	6	DIMMER_CTRL_LEVEL7	PW185B			92				Luminance Level7:Dimmer Level7 when less than the value.
	7	DIMMER_CTRL_LEVEL8	PW185B			105				Luminance Level8:Dimmer Level8 when less than the value.
	8	DIMMER_CTRL_LEVEL9	PW185B			255				Luminance Level9:Dimmer Level9 when less than the value.
	9	DIMMER_CTRL_LEVEL10	PW185B			255				Luminance Level10:Dimmer Level10 when less than the value.
	10	DIMMER_CTRL_LEVEL11	PW185B			255				Luminance Level11:Dimmer Level11 when less than the value.
	11	DIMMER_CTRL_LEVEL12	PW185B			255				Luminance Level12:Dimmer Level12 when less than the value.
	12	DIMMER_CTRL_LEVEL13	PW185B			255				Luminance Level13:Dimmer Level13 when less than the value.(Not used for PH)
	13	DIMMER_CTRL_LEVEL14	PW185B			255				Luminance Level14:Dimmer Level14 when less than the value.(Not used for PH)
	14	DIMMER_CTRL_LEVEL15	PW185B			255				Luminance Level15:Dimmer Level15 when less than the value.(Not used for PH)
	15	DIMMER_AVERAGE_POINT	PW185B			4				Avarage point of Luminance data for Dimmer
	16	DIMMER_AVERAGE_DATA	PW185B			-				Average value of Luminance data for Dimmer, Read only
	17	DIMMER_LEVEL_AUTO	PW185B			-				Present Dimmer Level
	18	DIMMER_LEVEL_NORMAL	PW185B			8				Dimmer Level at Normal
	19	DIMMER_LEVEL_ECO	PW185B			0				Dimmer Level at Eco
	20	Lamp check enable	PW185B			1				1: Lamp Fail Detection On (White 50% back), 0: Off (Blue 100% back)
	21	VOLTAGE_LEVEL	PW185B			-				Lamp Voltage, Read only 8bit value
Group 111	FAN CONTROL									
				Normal	Ceiling	Normal/Hi-land	Ceiling/Hi-land			
	0	FAN_TEMP_A_WARNING	PW185B	54	55	53	55	30-100		Temp A to judge temperature Error (Memorized)for Outside temp.
	1	FAN_TEMP_B_WARNING	PW185B	60	60	60	61	30-100		Temp B to judge temperature Error (Memorized)for Panel temp.
	2	FAN_TEMP_C_WARNING	PW185B	68	69	68	70	30-100		Temp C to judge temperature Error (Memorized)for Lamp temp.
	3	FAN_TEMP_B-A_WARNING	PW185B	100	100	100	100	0-100		Temp B-A to judge temperature Error (Memorized)for Filter cloggle detection
	4	FAN_TEMP_C-A_WARNING	PW185B	100	100	100	100	0-100		Temp C-A to judge temperature Error (Memorized)for Filter cloggle detection
	5	FAN_1_SPEED_MONI	PW185B			-		0-255		Fan Speed Monitor (Read only)
	6	FAN_2_SPEED_MONI	PW185B			-		0-255		Fan Speed Monitor (Read only)
	7	FAN_TEMP_A_MONI	PW185B			-				
	8	FAN_TEMP_B_MONI	PW185B			-		-		
	9	FAN_TEMP_C_MONI	PW185B			-		-		
	10	Lamp Mode	PW185B			1		0-2		0:Normal/1:Auto/2:Eco
	11	Fan Ctrl Mode	PW185B			0		0-1		0:Normal/1:Ceiling Switching
	12	FAN_CONTROL_SW	PW185B			0		0-3		0:Auto, 1:Max, 2:Min, 3:Manual Auto/Max/Min/ManualSwitching
	13	Hi-Land SW	M62398FP			0		0-5		0: Normal mode 1:Highland mode 2-4: Highland mode 1-3 5:Fixed
	14	Safety FAN Control Fix SW	M62398FP			0				For Safety Test FAN Control 0:Normal, 1:Normal Min, 2:Normal Max, 3:Eco Min, 4:Eco Max (Not Memorized),1-4 Temp Error at 100°C
	15	FAN_1_SPEED_CTRL	PW185B			135		0-255		Manual Adj. mode at FAN_CONTROL_SW=3 Normal
	16	FAN_2_SPEED_CTRL	PW185B			135		0-255		Manual Adj. mode at FAN_CONTROL_SW=3 Normal
	17	TEMP_UPWARNING_TIME_A (OUTSIDE)	PW185B			3		0-5		Setup Error Temp. for a duration of X minites started from Power ON
	18	TEMP_UPWARNING_TIME_B (PANEL)	PW185B			3		0-5		Setup Error Temp. for a duration of X minites started from Power ON
	19	TEMP_UPWARNING_TIME_C (LAMP)	PW185B			3		0-5		Setup Error Temp. for a duration of X minites started from Power ON
	20	TEMP_UPWARNING_TIME_B-A	PW185B			3		0-5		Setup Error Temp. for a duration of X minites started from Power ON
	21	TEMP_UPWARNING_TIME_C-A	PW185B			3		0-5		Setup Error Temp. for a duration of X minites started from Power ON
	22	UPWARNING_TEMP_A (OUTSIDE)	PW185B			8				Increase X°C for Error Temp. for a limited time started from Power ON
	23	UPWARNING_TEMP_B (PANEL)	PW185B			5				Increase X°C for Error Temp. for a limited time started from Power ON
	24	UPWARNING_TEMP_C (LAMP)	PW185B			8				Increase X°C for Error Temp. for a limited time started from Power ON
	25	UPWARNING_TEMP_B-A	PW185B			8				Increase X°C for Error Temp. for a limited time started from Power ON
	26	UPWARNING_TEMP_C-A	PW185B			8				Increase X°C for Error Temp. for a limited time started from Power ON
	27	FAN_1_START_SPEED	PW185B			80		0-255		Start Voltage 8V Fan series 1
	28	FAN_2_START_SPEED	PW185B			80		0-255		Start Voltage 8V Fan series 1
	29									
	30									
	31	FAN_1_COOLING_SPEED	PW185B			100		0-255		Fan series 1 Voltage at PowerOFF(Fan Model1)
	32	FAN_2_COOLING_SPEED	PW185B			100		0-255		Fan series 2 Voltage at PowerOFF(Fan Model1)
	33	FAN_1_TEMPERROR_SPEED	PW185B			135		0-255		Fan series 1 Voltage at Temp Error
	34	FAN_2_TEMPERROR_SPEED	PW185B			135		0-255		Fan series 2 Voltage at Temp Error
	35	Cooling Time L1	M62398FP			3		1-15		Cooling time setting for Fan Mode L1 (x30sec)1:30sec3:90sec15:450sec
	36	Cooling Time L2	M62398FP			4		1-15		Cooling time setting for Fan Mode L2 (x30sec)1:30sec3:90sec15:450sec
	37	IGNORE_TEMP_CHANGE_RATE	PW185B			10		5-50		Margin setting
	38	IGNORE_TEMP_CHANGE_TIMES	PW185B			5		1-9		Margin setting
	39									
	40									
	41									
	42	NOR_TEMP_FAN1_MIN	PW185B			47				FAN1 Control start temp.at Normal
	43	NOR_TEMP_FAN1_MAX	PW185B			50				FAN1 Control end temp. at Normal
	44	NOR_TEMP_FAN2_MIN	PW185B			47		0-255		FAN2 Control start temp.at Normal
	45	NOR_TEMP_FAN2_MAX	PW185B			50				FAN2 Control end temp. at Normal
	46	NOR_VALU_FAN1_MIN	M62398FP			68				FAN1 Control Min at Nrmal (0:0V, 255:25.5V)

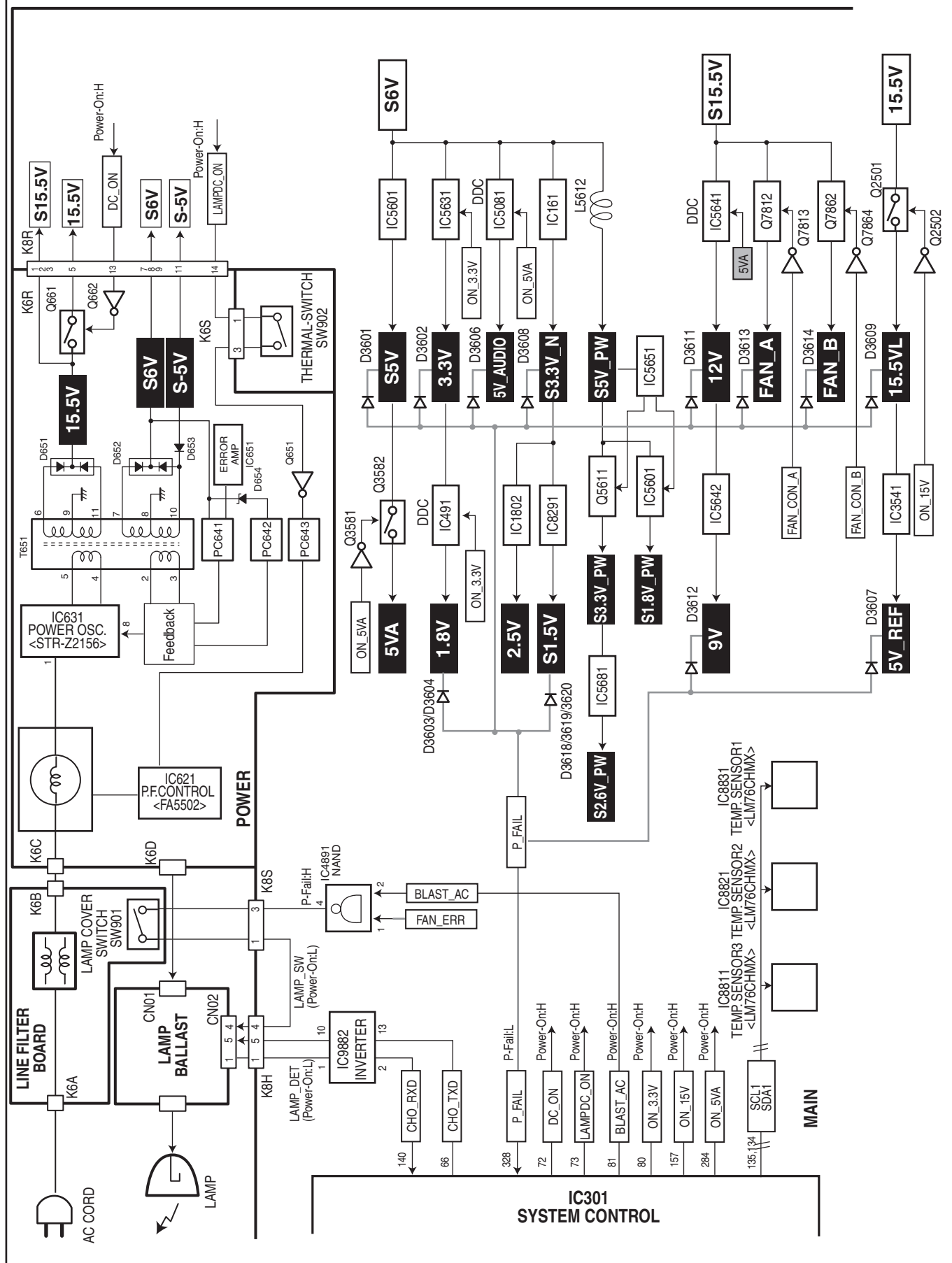
Item No.	NAME	Device	XGA						Range	Description
			PC	Component			Video			
				HDTV	480p	480i	NTSC	PAL		
	47	NOR_VALU_FAN1_MAX	M62398FP			135				FAN1 Control Max at Normal
	48	NOR_VALU_FAN2_MIN	M62398FP			73			0-255	FAN2 Control Min at Normal
	49	NOR_VALU_FAN2_MAX	M62398FP			113				FAN2 Control Max at Normal
	50	ECO_TEMP_FAN1_MIN	PW185B			47				FAN1 Control start temp.at Eco
	51	ECO_TEMP_FAN1_MAX	PW185B			51				FAN1 Control end temp. at Eco
	52	ECOTEMP_FAN2_MIN	PW185B			47			0-255	FAN2 Control start temp.at Eco
	53	ECO_TEMP_FAN2_MAX	PW185B			51				FAN2 Control end temp. at Eco
	54	ECO_VALU_FAN1_MIN	PW185B			52				FAN1 Control Min at Eco
	55	ECO_VALU_FAN1_MAX	PW185B			115				FAN1 Control Max at Eco
	56	ECO_VALU_FAN2_MIN	PW185B			62			0-255	FAN2 Control Min at Eco
	57	ECO_VALU_FAN2_MAX	PW185B			85				FAN2 Control Max at Eco
	58	HINOR_TEMP_FAN1_MIN	PW185B			43				FAN1 Control start temp.at Highland Normal
	59	HINOR_TEMP_FAN1_MAX	PW185B			43				FAN1 Control end temp. at Highland Normal
	60	HINOR_TEMP_FAN2_MIN	PW185B			43			0-255	FAN2 Control start temp.at Highland Normal
	61	HINOR_TEMP_FAN2_MAX	PW185B			43				FAN2 Control end temp. at Highland Normal
	62	HINOR_VALU_FAN1_MIN	M62398FP			135				FAN1 Control Min at Highland Nromal (0:0V, 255:25.5V)
	63	HINOR_VALU_FAN1_MAX	M62398FP			135				FAN1 Control Max at Highland Normal
	64	HINOR_VALU_FAN2_MIN	M62398FP			119			0-255	FAN2 Control Min at Highland Normal
	65	HINOR_VALU_FAN2_MAX	M62398FP			119				FAN2 Control Max at Highland Normal
	66	HIECO_TEMP_FAN1_MIN	PW185B			44				FAN1 Control start temp.at Highland Eco
	67	HIECO_TEMP_FAN1_MAX	PW185B			44				FAN1 Control end temp. at Highland Eco
	68	HIECOTEMP_FAN2_MIN	PW185B			44			0-255	FAN2 Control start temp.at Highland Eco
	69	HIECO_TEMP_FAN2_MAX	PW185B			44				FAN2 Control end temp. at Highland Eco
	70	HIECO_VALU_FAN1_MIN	M62398FP			120				FAN1 Control Min at Highland Eco
	71	HIECO_VALU_FAN1_MAX	M62398FP			120				FAN1 Control Max at Highland Eco
	72	HIECO_VALU_FAN2_MIN	M62398FP			91			0-255	FAN2 Control Min at Highland Eco
	73	HIECO_VALU_FAN2_MAX	M62398FP			91				FAN2 Control Max at Highland Eco
	74	CLNOR_TEMP_FAN1_MIN	PW185B			47				FAN1 Control start temp.at Ceiling Normal
	75	CINOR_TEMP_FAN1_MAX	PW185B			50				FAN1 Control end temp. at Ceiling Normal
	76	CLNOR_TEMP_FAN2_MIN	PW185B			47			0-255	FAN2 Control start temp.at Ceiling Normal
	77	CLNOR_TEMP_FAN2_MAX	PW185B			50				FAN2 Control end temp. at Ceiling Normal
	78	CLNOR_VALU_FAN1_MIN	M62398FP			68				FAN1 Control Min at Ceiling Nromal (0:0V, 255:25.5V)
	79	CLNOR_VALU_FAN1_MAX	M62398FP			135				FAN1 Control Max at Ceiling Normal
	80	CLNOR_VALU_FAN2_MIN	M62398FP			73			0-255	FAN2 Control Min at Ceiling Normal
	81	CLNOR_VALU_FAN2_MAX	M62398FP			113				FAN2 Control Max at Ceiling Normal
	82	CLECO_TEMP_FAN1_MIN	PW185B			48				FAN1 Control start temp.at Ceiling Eco
	83	CLECO_TEMP_FAN1_MAX	PW185B			51				FAN1 Control end temp. at Ceiling Eco
	84	CLECOTEMP_FAN2_MIN	PW185B			48			0-255	FAN2 Control start temp.at Ceiling Eco
	85	CLECO_TEMP_FAN2_MAX	PW185B			51				FAN2 Control end temp. at Ceiling Eco
	86	CLECO_VALU_FAN1_MIN	M62398FP			52				FAN1 Control Min at Ceiling Eco
	87	CLECO_VALU_FAN1_MAX	M62398FP			115				FAN1 Control Max at Ceiling Eco
	88	CLECO_VALU_FAN2_MIN	M62398FP			62			0-255	FAN2 Control Min at Ceiling Eco
	89	CLECO_VALU_FAN2_MAX	M62398FP			85				FAN2 Control Max at Ceiling Eco
	90	FAN_1_AUTO_ADJ	PW185B			0			0-1	0: OFF(Manual) 1:ON(Auto)
	91	FAN_2_AUTO_ADJ	PW185B			0			0-1	0: OFF(Manual) 1:ON(Auto)
	92	FACTORY_STD_FAN_VOL_MIN	PW185B			52			0-255	For Factory
	93	FACTORY_STD_FAN_VOL_MAX	PW185B			135			0-255	For Factory
	94	FAN1_ADJUST_VOLT_MIN	M62398FP			15				For Factory
	95	FAN1_ADJUST_VOLT_MAX	M62398FP			203				For Factory
	96	FAN2_ADJUST_VOLT_MIN	M62398FP			15			0-255	For Factory
	97	FAN2_ADJUST_VOLT_MAX	M62398FP			203				For Factory
	98	TEMP_ERROR_DETECT_MAX_TIMES				5			1-9	Detecting times for Temp Error
	99	FAN_1_MIN_VOL_LAMP_DIFF				0			0-20	
	100	FAN_2_MIN_VOL_LAMP_DIFF				0			0-20	
	101	LAMP_VOL_BORDER_LINE				70			30-90	
	102	LAMP_VOL				-			0-255	Present Lamp Voltage
	103	Dimmer Voltage Change Cycle				3				Change cycle of voltage at Dimmer
	104	Dimmer Average Check Period				10				Measurement time of Dimmer average
	105	Dimmer Voltage Change Rate				1				Voltage change rate ta Dimmer
	106	Dimmer Average				-				Dimmer average
	107	Last Voltage Difference				-				Last voltage difference
	108	Voltage Difference Goal				-				Target voltage difference at Dimmer
	109	Fan Control Tempdiff Normal	PW185B			0			0-10	Fan control temperature offset temp. Normal
Group 200	Auto Calibration									
	0	Execute Calibration	PW185B			0			0 - 255	Auto executing when value changes
	1	Loop Count	PW185B			3			1 - 30	Loop times of Auto Calibration
	2	OFFSET AREA H START	PW185B			25			0 - 4095	Black Level Acquire area H-Start Position
	3	OFFSET AREA V START	PW185B			500			0 - 4095	Black Level Acquire area V-Start Position
	4	GAIN AREA H START	PW185B			975			0 - 4095	White Level Acquire area H-Start Position
	5	GAIN AREA V START	PW185B			500			0 - 4095	White Level Acquire area V-Start Position
	6	Image AREA H WIDTH	PW185B			13			0 - 4095	Black/White Level Acquire area
	7	Image AREA V HEIGHT	PW185B			9			0 - 4095	Black/White Level Acquire area Height
	8	OFFSET target	PW185B			1			0 - 127	Target for Black Level Adj.
	9	OFFSET tolerance	PW185B			1			1 - 127	Allowence Range for Black Level Adj
	10	GAIN target	PW185B			244			0 - 255	Target for White Level Adj.
	11	GAIN tolerance	PW185B			1			1 - 255	Allowence Range for White Level Adj
	12	Offset Area Average [Red]	PW185B			0			0 - 255	Read Only
	13	Offset Area Average [Green]	PW185B			0			0 - 255	Read Only
	14	Offset Area Average [Blue]	PW185B			0			0 - 255	Read Only

Item No.	NAME	Device	XGA					Range	Description
			PC	Component			Video		
				HDTV	480p	480i	NTSC	PAL	
	15	Gain Area Average [Red]	PW185B		0			0 - 255	Read Only
	16	Gain Area Average [Green]	PW185B		0			0 - 255	Read Only
	17	Gain Area Average [Blue]	PW185B		0			0 - 255	Read Only
	18	Image LevelUpdate [OFFSET]	PW185B		0			0 - 255	Upadte item 12/13, Link to item 14
Group 290	Panel Type								
	0	Gamma L/R-Check			0			0 - 20	0: Gamma for L-Panel, 20: Gamma for R-Panel (Read only)
	1	Gamma L/R-Change			10			0 - 20	Change for R-Panel when the value is set to 20. Change for L-Panel when the value is set to 0.
Group 300	General DeInterlacer								
	1	3:2 PullDown Mode	PW185B		1			1 - 3	bit 0 : Global Motion Enable (FILMODEN23 GMD) bit 1 : Video Motion(VOFMODEN)
	2	Detect Film Mode Enable	PW185B		0			0 - 2	0 : 2:3pull down & 2:2pull down, 1 : 2:3pull down, 2 : 2:2pull down * Adjust at Film Mode with Menu
Group 301	Motion Adaptive								
	0	Motion Adaptive Weight Value L1	PW185B		30			0 - 255	KDEINT
	1	Motion Adaptive Weight Value L2	PW185B		0			0 - 255	KDEINT
	2	Motion Adaptive Weight Value FILM	PW185B		30			0 - 255	KDEINT
Group 302	Low Angle Interporation (LAI)								
	0	Angle Interpolation Level L1	PW185B		4			0 - 4	
	1	Angle Interpolation Level L2	PW185B		2			0 - 4	
	2	Angle Interpolation Level FILM	PW185B		4			0 - 4	
Group 311	Noise Reduction L1								
	0	Noise Pixel Range	PW185B		1			0 - 3	<NSRANGEY> / <NSRANGEUV>
	1	Noise Region 0	PW185B		12			0 - 1023	<NSREGIONY0> / <NSREGIONUV0>
	2	Noise Region 1	PW185B		24			0 - 1023	<NSREGIONY1> / <NSREGIONUV1>
	3	Noise Region 2	PW185B		40			0 - 1023	<NSREGIONY2> / <NSREGIONUV2>
	4	Noise Gain Level	PW185B		90			0 - 1023	<NSFILTERY**> / <NSFILTERUV**>
Group 313	Noise Reduction L2								
	0	Noise Pixel Range	PW185B		1			0 - 3	<NSRANGEY> / <NSRANGEUV>
	1	Noise Region 0	PW185B		12			0 - 1023	<NSREGIONY0> / <NSREGIONUV0>
	2	Noise Region 1	PW185B		24			0 - 1023	<NSREGIONY1> / <NSREGIONUV1>
	3	Noise Region 2	PW185B		40			0 - 1023	<NSREGIONY2> / <NSREGIONUV2>
	4	Noise Gain Level	PW185B		110			0 - 1023	<NSFILTERY**> / <NSFILTERUV**>
Group 320	2:2 Pull Down								
	0	22Film Mode Sensitivity	PW185B		4			1 - 5	Film Detection Sensitivity <FILMSTVT22>
	1	22Film Mode Threshold Low	PW185B		80			0 - 32767	<FILMTHRD22A>
	2	22Film Mode Threshold High	PW185B		120			0 - 32767	<FILMTHRD22B>
	6	Video Motion Window Start X	PW185B		10			0 - 2047	Window Setting of 22PullDown & Video Motion Sum calib.
	7	Video Motion Window StopX	PW185B		10			0 - 2047	
	8	Video Motion Window Start Y	PW185B		10			0 - 1023	
	9	Video Motion Window StopY	PW185B		10			0 - 1023	
Group 321	3:2 PullDown								
	0	Global Motion Sensitivity	PW185B		4			1 - 5	Film Detection Sensitivity <FILMSTVT23>
	1	Video Motion Sensitivity	PW185B		4			1 - 5	Film Detection Sensitivity <VOFSTVT>
	2	Video Motion Threshold Low	PW185B		120			0 - 32767	<VOFTHRDA>
	3	Video Motion Threshold High	PW185B		180			0 - 32767	<VOFTHRDB>
	4								
	5	23Film Mode Threshold	PW185B		100			0 - 32767	<FILMTHRD23>
	6	Global Motion Window Start X	PW185B		10			0 - 2047	Window Setting of Global Motion Sum Calib.
	7	Global Motion Window Stop X	PW185B		10			0 - 2047	
	8	Global Motion Window Start Y	PW185B		10			0 - 1023	
	9	Global Motion Window Stop Y	PW185B		10			0 - 1023	
Group 500	OverScan Video 480i								
	1	Disp Dots (HRES)	PW185B		668				Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW185B		78				Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW185B		48				Vertical Back Porch
	4	Disp Line (VRES)	PW185B		458				Vertical Resolution
Group 502	OverScan Video 575i								
	1	Disp Dots (HRES)	PW185B		658				Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW185B		94				Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW185B		64				Vertical Back Porch
	4	Disp Line (VRES)	PW185B		536				Vertical Resolution
Group 520	OverScan HDTV 480i								
	1	Disp Dots (HRES)	PW185B		670				Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW185B		78				Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW185B		50				Vertical Back Porch
	4	Disp Line (VRES)	PW185B		454				Vertical Resolution
Group 522	OverScan HDTV 575i								
	1	Disp Dots (HRES)	PW185B		650				Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW185B		96				Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW185B		64				Vertical Back Porch
	4	Disp Line (VRES)	PW185B		532				Vertical Resolution
Group 524	OverScan HDTV 480p								
	0	Total Dots(HTOTAL)	AD9883		1317				AD9883 PLL Div
	1	Disp Dots (HRES)	PW185B		1050				Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW185B		211				Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW185B		48				Vertical Back Porch
	4	Disp Line (VRES)	PW185B		460				Vertical Resolution

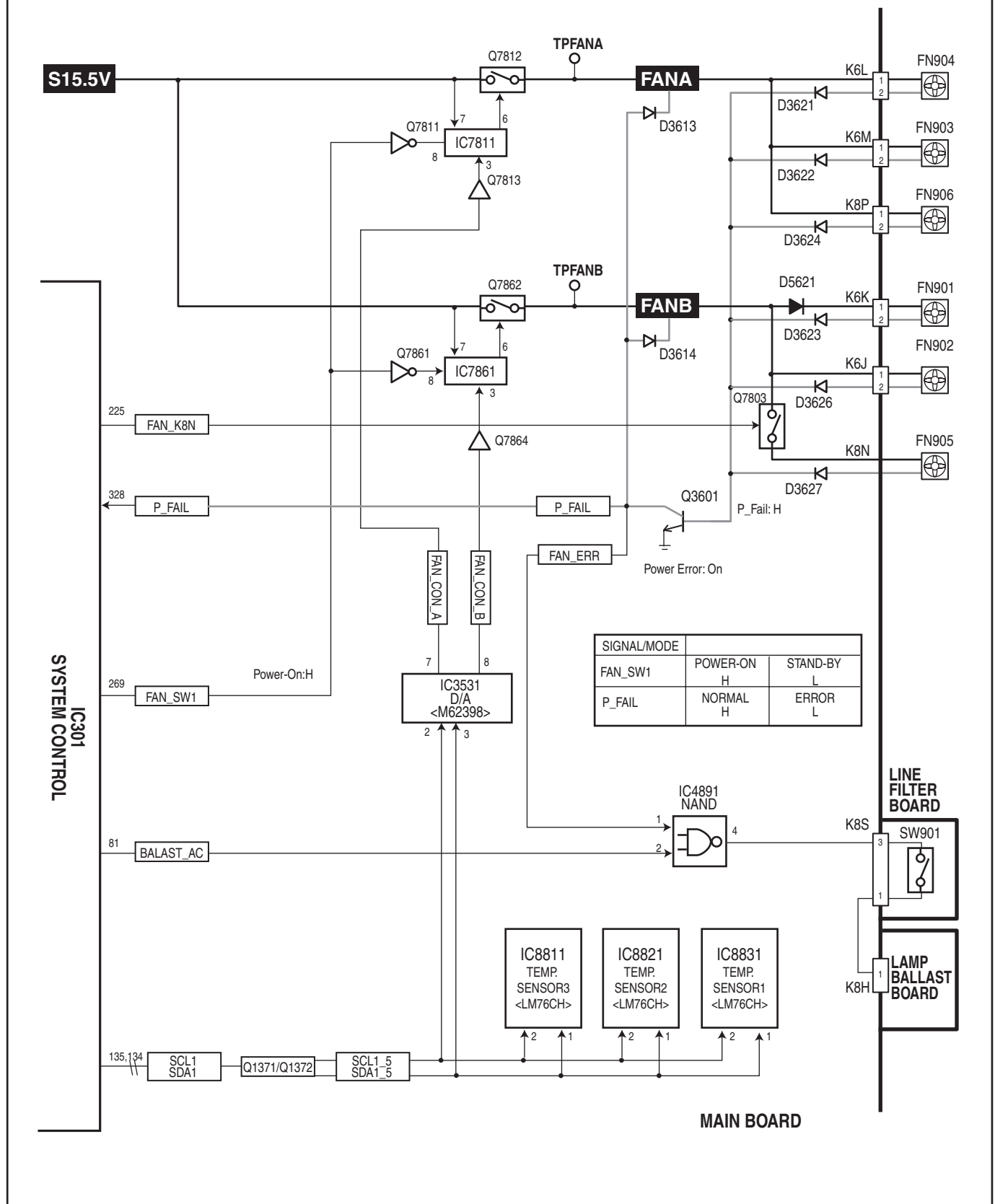
Item No.	NAME	Device	XGA					Range	Description	
			PC	Component			Video			
				HDTV	480p	480i	NTSC			PAL
Group 526	5	Clamp Pos	AD9883	1						AD9883 Clamp Placement
	6	Clamp Width	AD9883	31						AD9883 Clamp Duration
	OverScan HDTV 575p									
	0	Total Dots(HTOTAL)	AD9883	1253						AD9883 PLL Div
	1	Disp Dots (HRES)	PW185B	956						Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW185B	234						Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW185B	62						Vertical Back Porch
	4	Disp Line (VRES)	PW185B	536						Vertical Resolution
Group 528	5	Clamp Pos	AD9883	1						AD9883 Clamp Placement
	6	Clamp Width	AD9883	31						AD9883 Clamp Duration
	OverScan HDTV 720p									
	0	Total Dots(HTOTAL)	AD9883	1650						AD9883 PLL Div
	1	Disp Dots (HRES)	PW185B	1250						Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW185B	306						Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW185B	34						Vertical Back Porch
	4	Disp Line (VRES)	PW185B	702						Vertical Resolution
Group 530	5	Clamp Pos	AD9883	42						AD9883 Clamp Placement
	6	Clamp Width	AD9883	31						AD9883 Clamp Duration
	OverScan HDTV 1035i									
	0	Total Dots(HTOTAL)	AD9883	2200						AD9883 PLL Div
	1	Disp Dots (HRES)	PW185B	1876						Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW185B	248						Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW185B	92						Vertical Back Porch
	4	Disp Line (VRES)	PW185B	1012						Vertical Resolution
Group 532	5	Clamp Pos	AD9883	50						AD9883 Clamp Placement
	6	Clamp Width	AD9883	31						AD9883 Clamp Duration
	OverScan HDTV 1080i 50Hz									
	0	Total Dots(HTOTAL)	AD9883	2640						AD9883 PLL Div
	1	Disp Dots (HRES)	PW185B	1874						Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW185B	250						Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW185B	56						Vertical Back Porch
	4	Disp Line (VRES)	PW185B	1050						Vertical Resolution
Group 534	5	Clamp Pos	AD9883	50						AD9883 Clamp Placement
	6	Clamp Width	AD9883	31						AD9883 Clamp Duration
	OverScan HDTV 1080i 60Hz									
	0	Total Dots(HTOTAL)	AD9883	2200						AD9883 PLL Div
	1	Disp Dots (HRES)	PW185B	1874						Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW185B	250						Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW185B	54						Vertical Back Porch
	4	Disp Line (VRES)	PW185B	1054						Vertical Resolution
Group 540	5	Clamp Pos	AD9883	50						AD9883 Clamp Placement
	6	Clamp Width	AD9883	31						AD9883 Clamp Duration
	OverScan RGB 480i									
	0	Total Dots(HTOTAL)	AD9883	780						AD9883 PLL Div
	1	Disp Dots (HRES)	PW185B	616						Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW185B	130						Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW185B	54						Vertical Back Porch
	4	Disp Line (VRES)	PW185B	460						Vertical Resolution
Group 542	5	Clamp Pos	AD9883	1						AD9883 Clamp Placement
	6	Clamp Width	AD9883	31						AD9883 Clamp Duration
	OverScan RGB 575i									
	0	Total Dots(HTOTAL)	AD9883	944						AD9883 PLL Div
	1	Disp Dots (HRES)	PW185B	718						Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW185B	180						Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW185B	66						Vertical Back Porch
	4	Disp Line (VRES)	PW185B	536						Vertical Resolution
Group 544	5	Clamp Pos	AD9883	1						AD9883 Clamp Placement
	6	Clamp Width	AD9883	31						AD9883 Clamp Duration
	OverScan RGB 480p									
	0	Total Dots(HTOTAL)	AD9883	1200						AD9883 PLL Div
	1	Disp Dots (HRES)	PW185B	958						Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW185B	192						Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW185B	48						Vertical Back Porch
	4	Disp Line (VRES)	PW185B	460						Vertical Resolution
Group 546	5	Clamp Pos	AD9883	1						AD9883 Clamp Placement
	6	Clamp Width	AD9883	31						AD9883 Clamp Duration
	OverScan RGB 575p									
	0	Total Dots(HTOTAL)	AD9883	1200						AD9883 PLL Div
	1	Disp Dots (HRES)	PW185B	912						Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW185B	224						Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW185B	62						Vertical Back Porch
	4	Disp Line (VRES)	PW185B	540						Vertical Resolution
Group 548	5	Clamp Pos	AD9883	1						AD9883 Clamp Placement
	6	Clamp Width	AD9883	31						AD9883 Clamp Duration
	OverScan RGB 720p									
	0	Total Dots(HTOTAL)	AD9883	1650						AD9883 PLL Div
	1	Disp Dots (HRES)	PW185B	1250						Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW185B	306						Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW185B	34						Vertical Back Porch
	4	Disp Line (VRES)	PW185B	702						Vertical Resolution

Item No.	NAME	Device	XGA					Range	Description	
			PC	Component			Video			
				HDTV	480p	480i	NTSC			PAL
Group 550	5	Clamp Pos	AD9883	48						AD9883 Clamp Placement
	6	Clamp Width	AD9883	31						AD9883 Clamp Duration
	OverScan RGB 1035i									
	0	Total Dots(HTOTAL)	AD9883	2200						AD9883 PLL Div
	1	Disp Dots (HRES)	PW185B	1874						Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW185B	250						Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW185B	92						Vertical Back Porch
	4	Disp Line (VRES)	PW185B	1012						Vertical Resolution
Group 552	5	Clamp Pos	AD9883	48						AD9883 Clamp Placement
	6	Clamp Width	AD9883	31						AD9883 Clamp Duration
	OverScan RGB 1080i 50Hz									
	0	Total Dots(HTOTAL)	AD9883	2640						AD9883 PLL Div
	1	Disp Dots (HRES)	PW185B	1874						Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW185B	250						Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW185B	56						Vertical Back Porch
	4	Disp Line (VRES)	PW185B	1052						Vertical Resolution
Group 554	5	Clamp Pos	AD9883	48						AD9883 Clamp Placement
	6	Clamp Width	AD9883	31						AD9883 Clamp Duration
	OverScan RGB 1080i 60Hz									
	0	Total Dots(HTOTAL)	AD9883	2200						AD9883 PLL Div
	1	Disp Dots (HRES)	PW185B	1874						Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW185B	250						Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW185B	54						Vertical Back Porch
	4	Disp Line (VRES)	PW185B	1054						Vertical Resolution
Group 560	5	Clamp Pos	AD9883	48						AD9883 Clamp Placement
	6	Clamp Width	AD9883	31						AD9883 Clamp Duration
	OverScan Scart 480i									
	1	Disp Dots (HRES)	PW185B	674						Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW185B	78						Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW185B	46						Vertical Back Porch
	4	Disp Line (VRES)	PW185B	458						Vertical Resolution
	OverScan Scart 575i									
Group 562	1	Disp Dots (HRES)	PW185B	656						Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW185B	96						Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW185B	62						Vertical Back Porch
	4	Disp Line (VRES)	PW185B	536						Vertical Resolution

[illegible]



























Fan control circuit



Troubleshooting

Indicators and Projector Condition

Check the indicators for projector condition.

Indicators			Projector Condition
POWER red/green	WARNING red	LAMP REPLACE yellow	
			The projector is off. (The AC power cord is unplugged.)
			The projector is preparing for stand-by or the projection lamp is being cooled down. The projector cannot be turned on until cooling is completed.
			The projector is ready to be turned on with the POWER ON-OFF button.
			The projector is operating normally.
			The projector is in the Power management mode.
			The temperature inside the projector is abnormally high. The projector cannot be turned on. When the projector is cooled down enough and the temperature returns to normal, the POWER indicator emits a red light and the projector can be turned on. (The WARNING indicator keeps blinking.) Check and clean the air filters.
			The projector has been cooled down enough and the temperature returns to normal. When turning on the projector, the WARNING indicator stops blinking. Check and clean the air filters.
			The projector detects an abnormal condition and cannot be turned on. Check power supply circuit and fans control circuit.

 ... green.

 ... red

 ... off

 ... blinks green.

 ... blinks red.

* When the life of the projection lamp draws to an end, the LAMP REPLACE indicator lights yellow. When this indicator lights yellow, replace the projection lamp with a new one promptly. Reset the lamp replacement counter after replacement of the lamp.

No Power

This projector provides a function which can be specified a defective area simply by indicating the LEDs. Connect the AC cord and press the Power button once and then check the LED indication.

- **When all of LED indicators are not lighting**, the symptom indicates that the primary power supply circuit does not operate properly. Check the power primary circuit and parts as follow;

- AC cord
- F601 (Fuse)
- Power board
- SW902 (Thermal sw.)short in normal
- SW902 opens when the surrounding temperature of the switch exceeds 105°C.

- **When the WARNING (red) and POWER(red) indicators are flashing**, the symptom indicates that the projector detected an abnormal temperature risen inside the projector. Check the air filters and remove the object near the intake and exhaust fan openings, and wait until the POWER indicator stops flashing, and then try to turn on the projector.

The internal temperature is monitored by sensor ICs, IC8801, IC8821 and IC8831 on the Main board.

- **When the WARNING indicator lights red**, the symptom indicates that the projector detected an abnormality in the cooling fan operation or in the power supply secondary circuits. Check fan operation and power supply lines, and the driving signal status.

The P_FAIL signal (Error: L) is sent to pin 382 of IC301<SYSTEM CONTROL> when the abnormality occurred inside the projector, and then the IC301 sends the shut down signals, DC_ON and LAMPDC_ON, to the power supply circuit to stop its operation, and signal BALAST_AC to the lamp ballast board via IC4891 and SW901<lamp cover switch> to stop operation of the lamp circuit.

An abnormality occurs on the secondary power supply;

Check power supplies 15.5V, S15.5V, S6V, S-5V. P_FAIL signal becomes "Low" when the abnormality occurs on any of the power supply lines.

An abnormality occurs on the fan control circuit;

Check FN901, FN902, FN903, FN904, FN905, FN906 and peripheral circuit.

If any of the fans has an error, the fan lock signal drives Q3601 becomes on. As the result, signal FAN_ERR becomes Low and is sent to lamp ballast board to stop lamp circuit.

An abnormality occurs on the drive signals;

DC_ON signal (Power-on: H) is output from pin 72 of IC301 and supplied to power supply circuit.

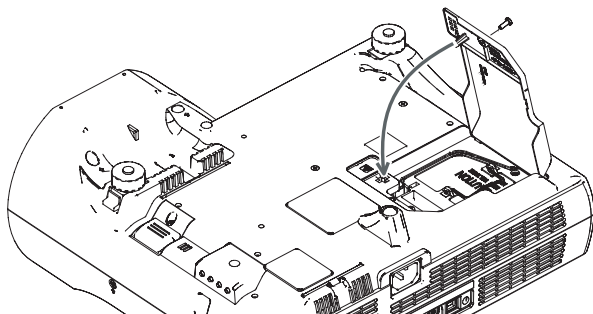
LAMPDC_ON signal (Power-on: H) is output from pin 73 of IC301 and supplied to the P.F Control IC, IC621, on the power supply board through Q651, and PC643.

BLAST_AC signal (Power-on: H) is output from pin 81 of IC301 and applied to pin 2 of IC4891 and output pin 4 and then supplied to the lamp ballast board through the Lamp Cover switch(SW901).

CHO_RXD signal at the pin 140 of IC301 is applied from the lamp ballast unit. If the abnormality occurred on the lamp ballast unit, CHO_RXD signal becomes "High" and then IC301 shuts down the power supply circuit.

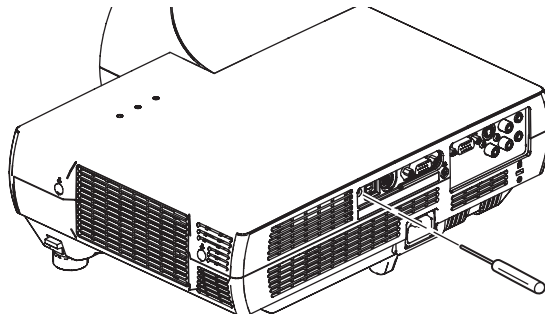
Lamp Cover switch

Make sure that the lamp cover is mounted correctly. If not or the lamp cover removed, the lamp does not light on for the safety. Check the lamp cover and lamp cover switch (SW901).



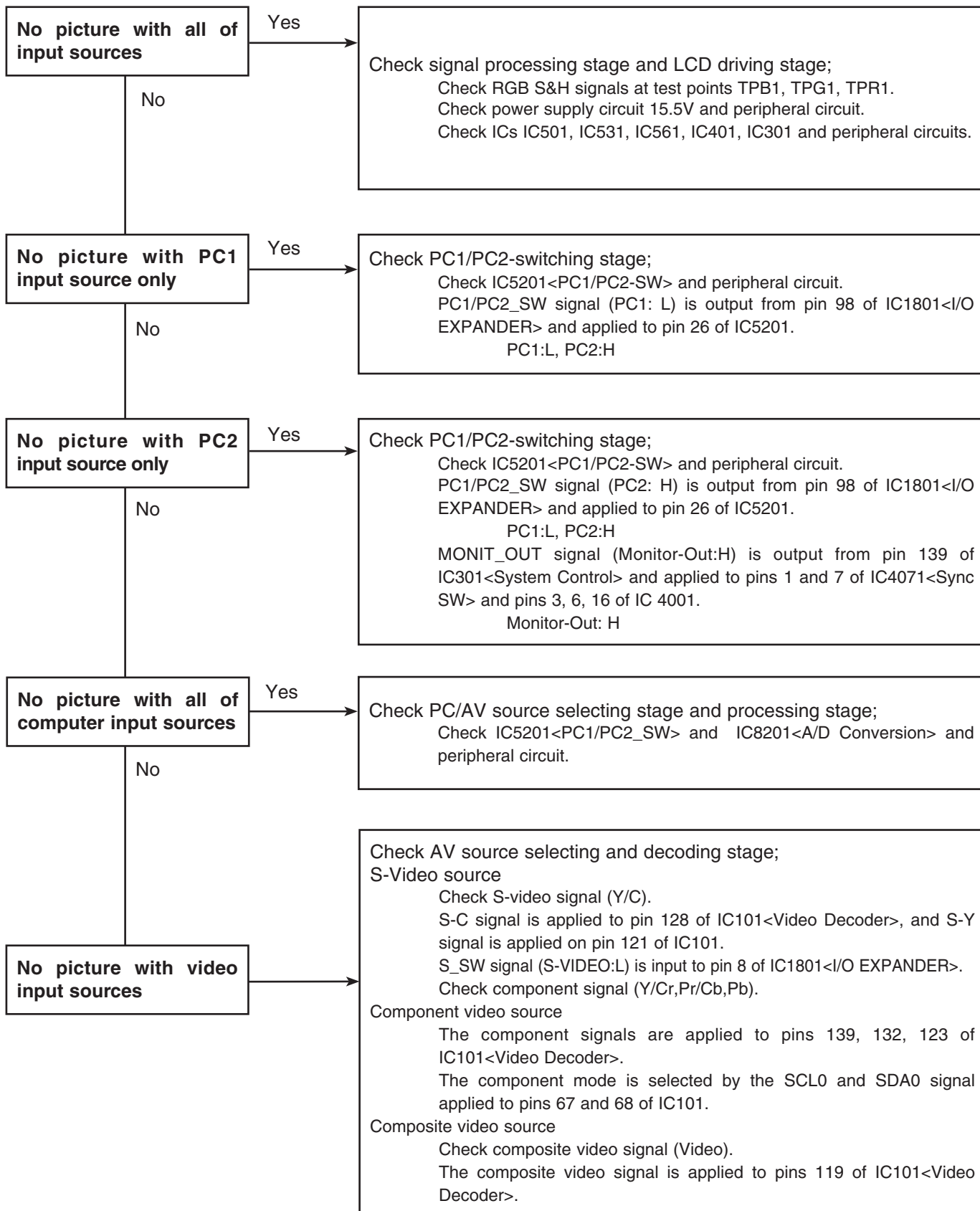
Reset switch

The microprocessor inside the projector may occasionally malfunction and does not accept any controls. In this case, press the reset switch on the rear panel with a sharp tool to restart the projector.



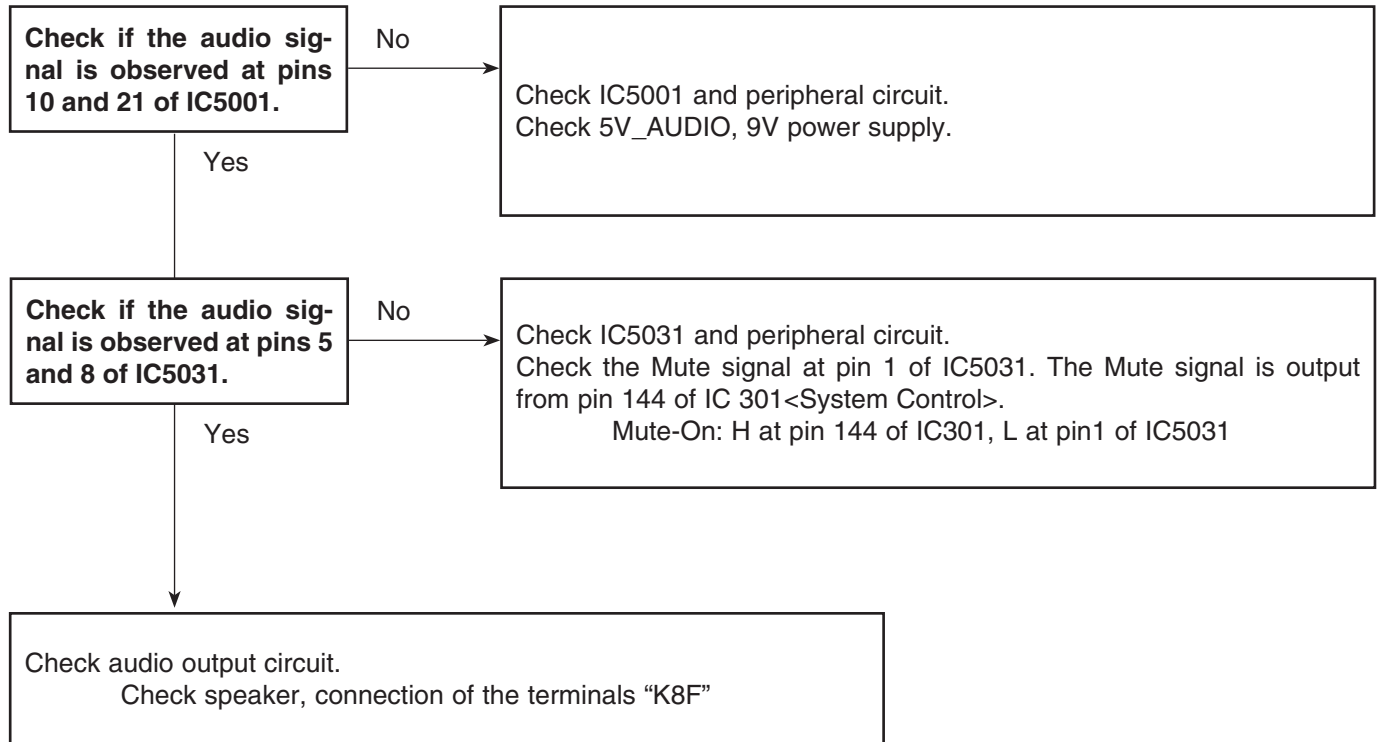
No Picture

Check following steps.



No Sound

Check following steps.



Control Port Functions

System Control I/O Port Functions (IC301)

PIN No.	PIN NAME	PORT	SIGNAL	DESCRIPTION	I/O
81	E1	IN0GO3	BLAST_AC	Ballast Drive Power-On: H	O
80	F1	IN0GO7	ON_3.3V	3.3V Drive On: H	O
157	F2	IN0GO5	15V_ON	15V Drive On: H	O
79	G1	IN0BO3	PANEL_OPT	Panel Optioin H: XGA, L:SVGA	I
225	G3	IN0GO9	FAN_K8N	Fan Drive On: H	O
155	H2	IN0BO4	CARD_IN		I
77	J1	IN0VS	GVS		I
223	J3	IN0HS	GFBK		I
284	J4	IN0GO8	ON_5VA	5VA Drive On: H	O
76	K1	IN0BO5	W_LAN_IN	Wireless LAN Option	I
153	K2	IN0CST	GCOAST		I
222	K3	IN0CLP	GBLKSPL		I
75	L1	IN0AHS	GHS		I
282	L4	IN0CLK	GCLK		I
73	N1	IN0GO6	LAMPDC_ON	On: H	O
72	P1	IN0GO2	DC_ON	On: H	O
278	R4	IN1PEN	VPEN		I
216	T3	IN1R9	IRM_STB		O
215	U3	IN1CLK	VCLK		I
327	V6	ADC2	KEY3	Key Input	I
326	V7	XO	XO		O
316	V17	DCLK	DCLK		O
315	V18	DHS	DHS		O
258	V19	DVS	DVS		O
67	W1	IN1R3	SH_G_STB		O
144	W2	IN1R5	AUDIO_MUTE	Audio Mute Output Mute-On: H	O
275	W4	IN1R2	SH_R_STB		O
271	W7	XI	XI		I
269	W9	IN0RO8	FAN_SW1	Fan Control Switch	O
267	W11		IO RESET	Reset I/O Expander ICs	O
266	W12	PORTB5	SCLK		O
265	W13	TXD	TXD_PW	Serial Control TXD	O
66	Y1	TXD1	CHO_TXD	Ballast Control TXD	O
212	Y3	IN1FIELD	VFIELD		I
211	Y4	IN1VBI	VBLK		I
328	V5	IN0BO2	P_FAIL	Power Failure Detection Input	I
209	Y6	LVDSSEN	LVDSSEN		O
207	Y8	NMI	NMI		I
206	Y9	PORTA0	WARINIG_LED	WARNING LED Drive On: H	O
202	Y13	RXD	RXD_PW	Serial Control RXD	O
65	AA1	IN1AHS	VHS		I
141	AA3	IN1R7	IRM_RST		O
140	AA4	RXD1	CHO_RXD	Ballast Control RXD	O
139	AA5	IN1R6	MONIT_OUT	Monitor Out Switch Monitor-Out: H	O
138	AA6	ADC0	KEY1	Key Input	I
136	AA8	RESETB	RESET	Reset Input	I
135	AA9	PORTA3	PWR_LED	POWER LED Drive On: H	O
134	AA10	PORTA2	READY_LED	READY LED Drive On: H	O
63	AB2	IN1VS	VVS		I
61	AB4	IN1R8	3L_EN		O
60	AB5	IN1R4	SH_B_STB		O
59	AB6	IN1HS	VHS		I
58	AB7	ADC1	KEY2	Key Input	I
57	AB9	PORTB4	EXTRSTEN		
54	AB10	PORTA5	LAMPREP_LED	LAMP REPLACE LED Drive On: H	O
53	AB11	PORTA1	CABLE_SW		O
52	AB12	PORTA4	IRRCVR0	Remote Control Signal Input	I

Control Port Functions

I/O Expander Port Functions (IC1801)

PIN NO.	NAME	FUNCTION	ACTION	I/O
8	P7	S_SW	Scart switch H: Scart	O
20	XCS	CS0		I
21	XRD	RD		I
22	XWR	WR		I
34	WAKEUP	WAKEUP		I
36	RST	RESET	L- H: Reset	I
38	XI	XTAL IN		I
39	XO	XTAL OUT		O
48	P21	DDC_SW2	n/a	O
49	P22	ECO_SW	n/a	O
50	P23	S/CV_SW	S-Video/Video Switch H: Composite Video-in	O
51	P24	SC_SW	SCART In Switch H: Scart In	O
52	P25	RESET_N		O
53	P26	LED_SW	LED Drive Switch H: On	O
54	P27	USB_VBUS		I
61	AIN1	Option Switch		I
62	AIN2	Option Switch		I
63	AIN3	Option Switch		I
64	AIN4	Option Switch		I
65	AIN5	Option Switch		I
66	AIN6	Option Switch		I
67	AIN7	Option Switch		I
68	AIN8	Option Switch		I
79	P39	I/O_R/C		I
81	DMINUS	USB_D-		I
82	DPLUS	ISB_D+		I
91	P11	SCLK_I/O		I/O
92	P12	SDATA_I/O		O
98	P16	PC1/PC2_SW	L: PC1, H: PC2	O
99	P17	PCAV_SW	n/a	O
100	P18	DVI_SW	n/a	O

IIC Bus DA Converter Port Functions (IC3531)

PIN NO.	NAME	FUNCTION	ACTION	I/O
1	R	Reset	"H": Fixed	I
2	SCL	IIC SCL	"L": Active	I/O
3	SDA	IIC SDA	"L": Active	I/O
4	Ao7	REF_R		O
5	Ao8	REF_G		O
6	Ao9	REF_B		O
7	Ao10	FAN_CONT_A	0xFFh:min 0x00h:Max	O
8	Ao11	FAN_CONT_2	0xFFh:min 0x00h:Max	O
9	Ao12	Not used		O
10	VrefL		Lower Ref. Voltage for D/A Convertor GND	I
11	VrefU1		Lower Ref. Voltage for D/A Converter(CH7~CH12)Vcc(Standby 5V)	I
12	GND	GND	GND	I
13	VrefU2		Upper Ref. Voltage for D/A Convertor CH1~CH6)Vcc(Standby 5V)	I
14	Ao1	Not used		O
15	Ao2	Not used		O
16	Ao3	Not used		O
17	Ao4	R_V1	Video signal reference voltage R	O
18	Ao5	G_V1	Video signal reference voltage B	O
19	Ao6	B_V1	Video signal reference voltage B	O
20	Vcc	Power for Digital	Vcc(Standby 5V)	I
21	Vdd	Power for Analog	Vcc(Standby 5V)	I
22	CS2	Chip Select 2	"H": Fixed	I
23	CS1	Chip Select 1	"H": Fixed	I
24	CS0	Chip Select 0	"L": Fixed	I

[illegible]

Cleaning

After long periods of use, dust and other particles will accumulate on the LCD panel, prism, mirror, polarized glass, lens, etc., causing the picture to darken or color to blur. If this occurs, clean the inside of optical unit.

Remove dust and other particles using air spray. If dirt cannot be removed by air spray, disassemble and clean the optical unit.

Cleaning with air spray

1. Remove the cabinet top following to “Mechanical Disassemblies”.
2. Clean up the LCD panel and polarizing plate by using the air spray from the cabinet top opening.

Caution:

Use a commercial (inert gas) air spray designed for cleaning camera and computer equipment. Use a resin-based nozzle only. Be very careful not to damage optical parts with the nozzle tip. Never use any kind of cleanser on the unit. Also, never use abrasive materials on the unit as this may cause irreparable damage.

Disassembly Cleaning

Disassembly cleaning method should only be performed when the unit is considerably dirty and cannot be sufficiently cleaned by air spraying alone.

Be sure to readjust the optical system after performing disassembly cleaning.

1. Remove the cabinet top and main units following to “Mechanical Disassemblies”.
2. Remove the optical base top following to “Optical Unit Disassemblies”. If the LCD panel needs cleaning, remove the LCD panel unit following to “LCD panel replacement”.
3. Clean the optical parts with a soft cloth. Clean extremely dirty areas using a cloth moistened with alcohol.

Caution:

The surface of the optical components consists of multiple dielectric layers with varying degrees of refraction. Never use organic solvents (thinner, etc.) or any kind of cleanser on these components.

Since the LCD panel is equipped with an electronic circuit, never use any liquids (water, etc.) to clean the unit. Use of liquid may cause the unit to malfunction.

Projection Lens Cleaning



CAUTION

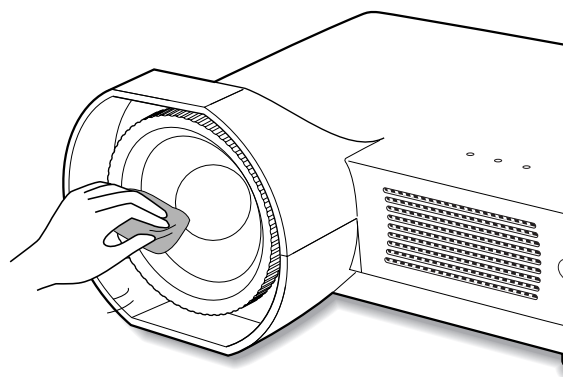
This projector is equipped with a plastic lens.

Do not rub with hard fiber cloth or do not hit the lens with something hard to prevent the lens from scratching. Do not use chemical cleaner (liquid and solid) avoid deteriorating the lens.

1 Disconnect the AC power cord before cleaning.

2 First, remove the dust with a blower.
Then gently wipe the lens surface. Use a lens cleaning paper moistened with methyl alcohol (methanol). Avoid excessive use of cleaner.
Do not use abrasive cleaners, solvents, or other harsh chemical cleaners not to damage the lens.

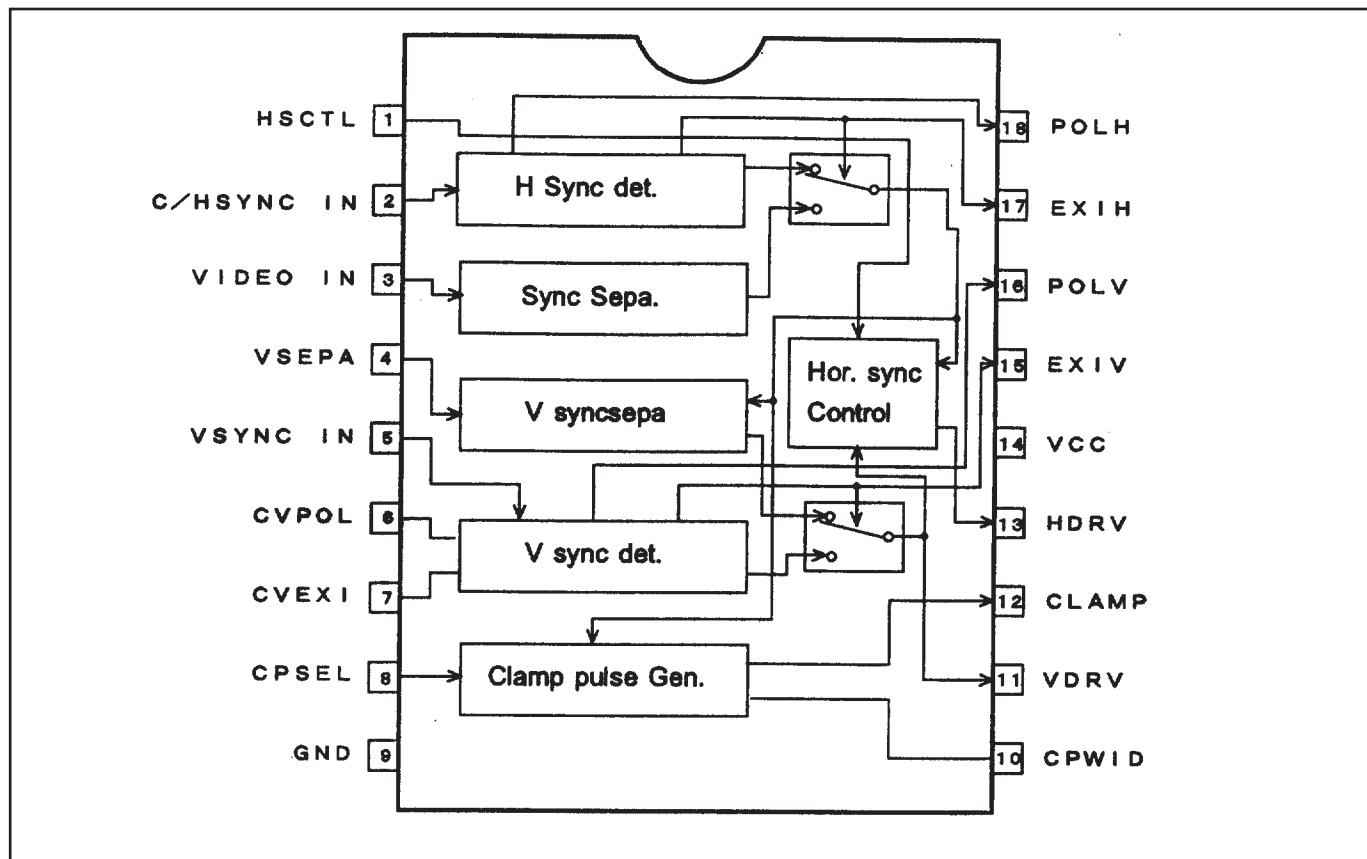
3 When the projector is not in use, replace the lens cover.



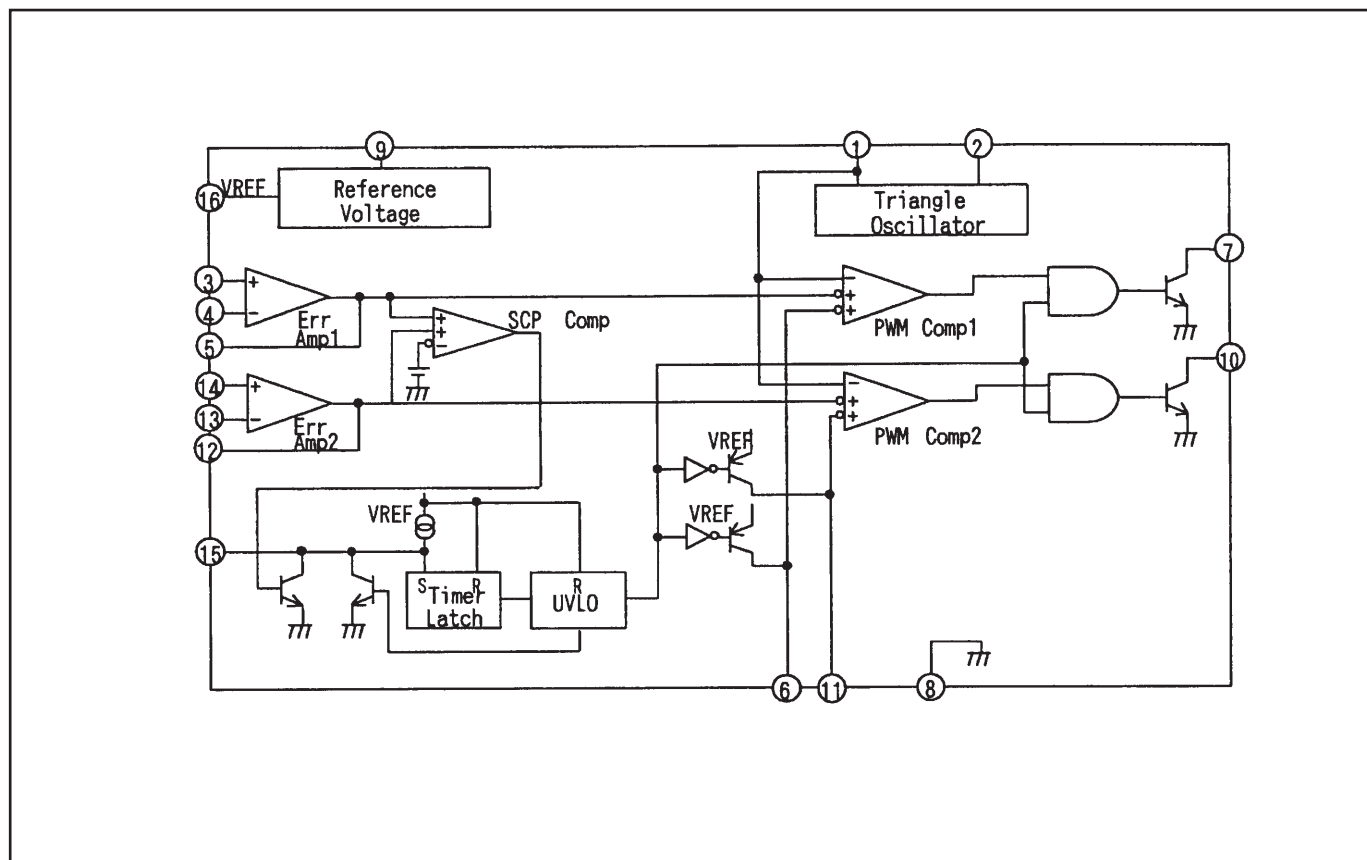
● AD9883 <A/D, IC8201>



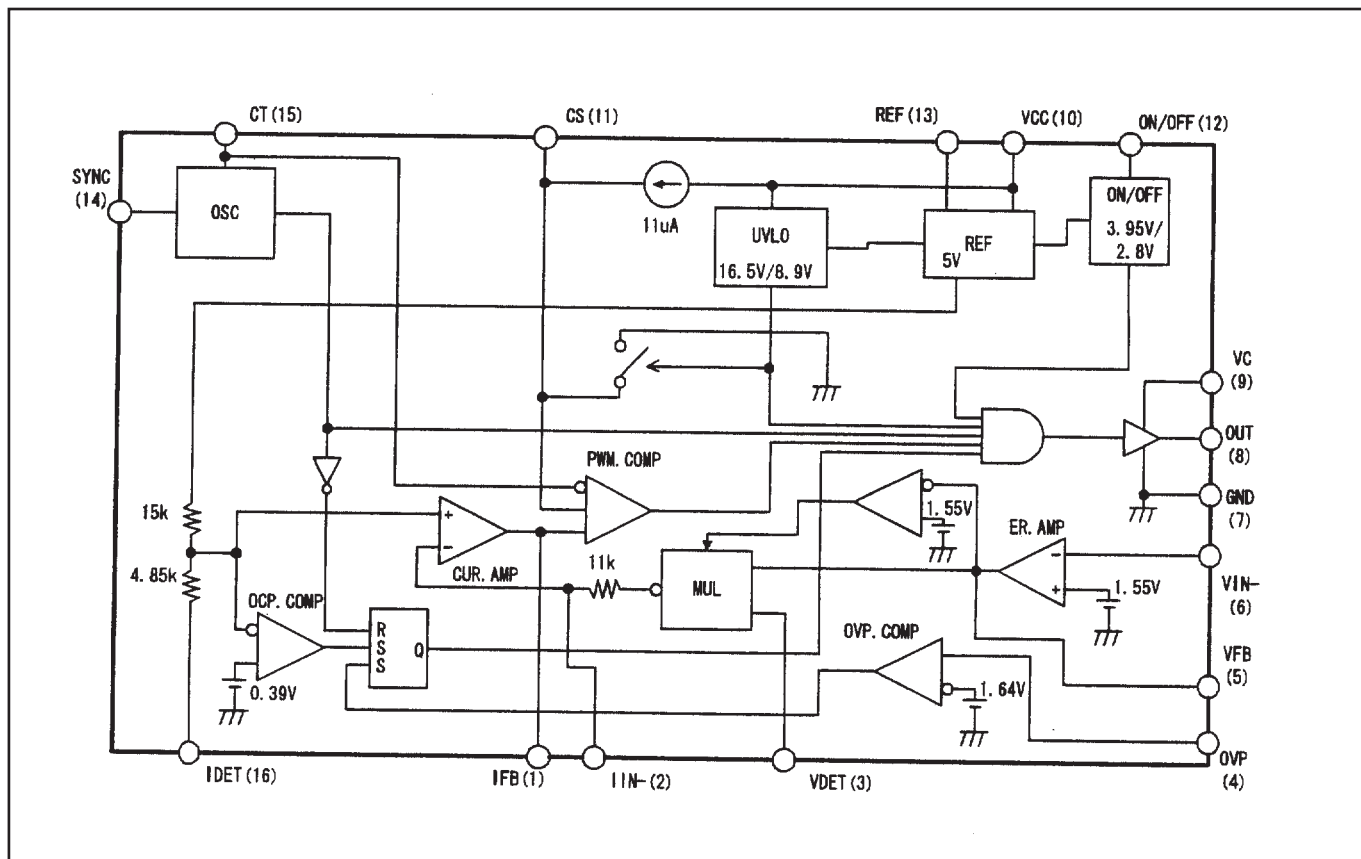
● BA7078 <Sync Separator, IC5301>



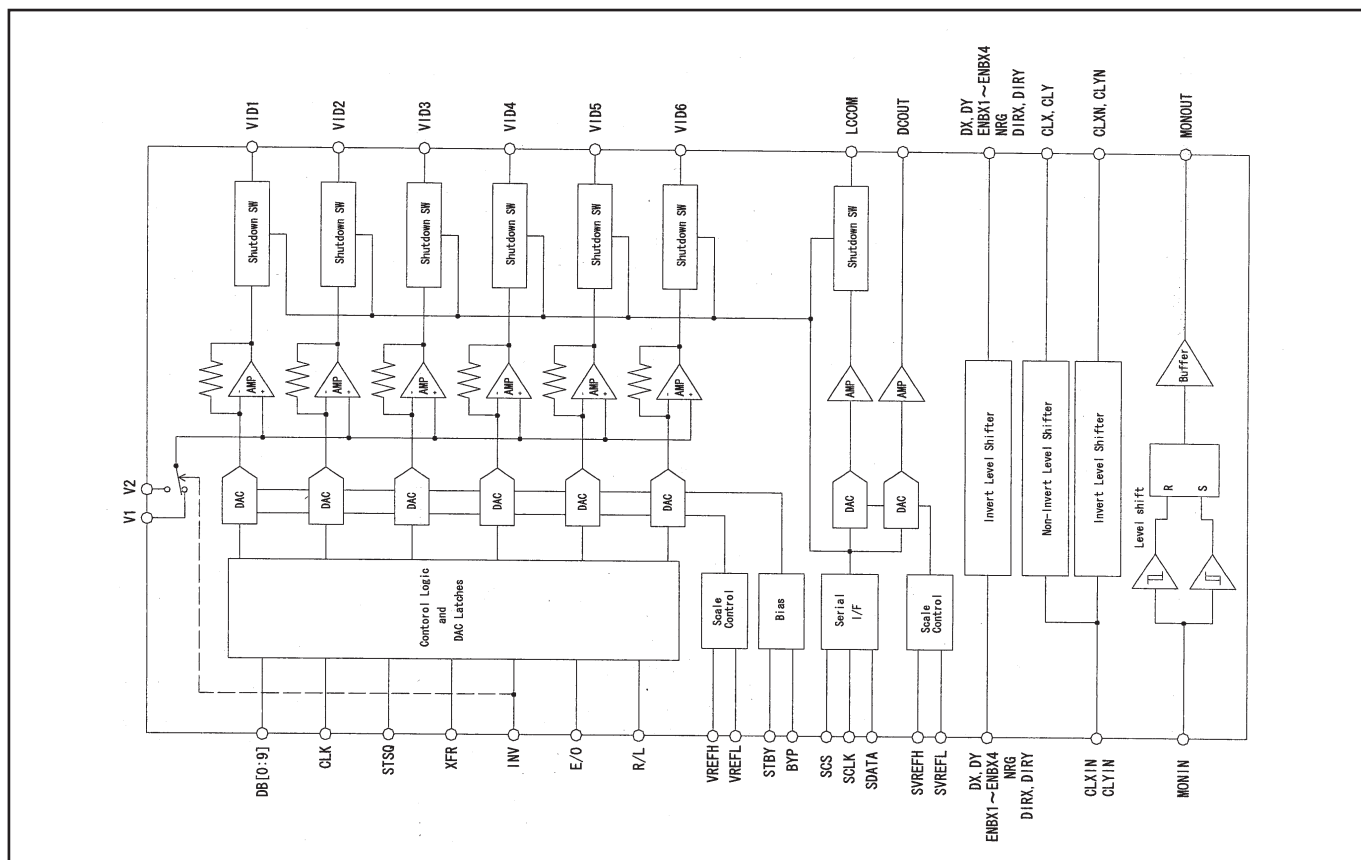
● BA9743<DDC Control, IC5651>



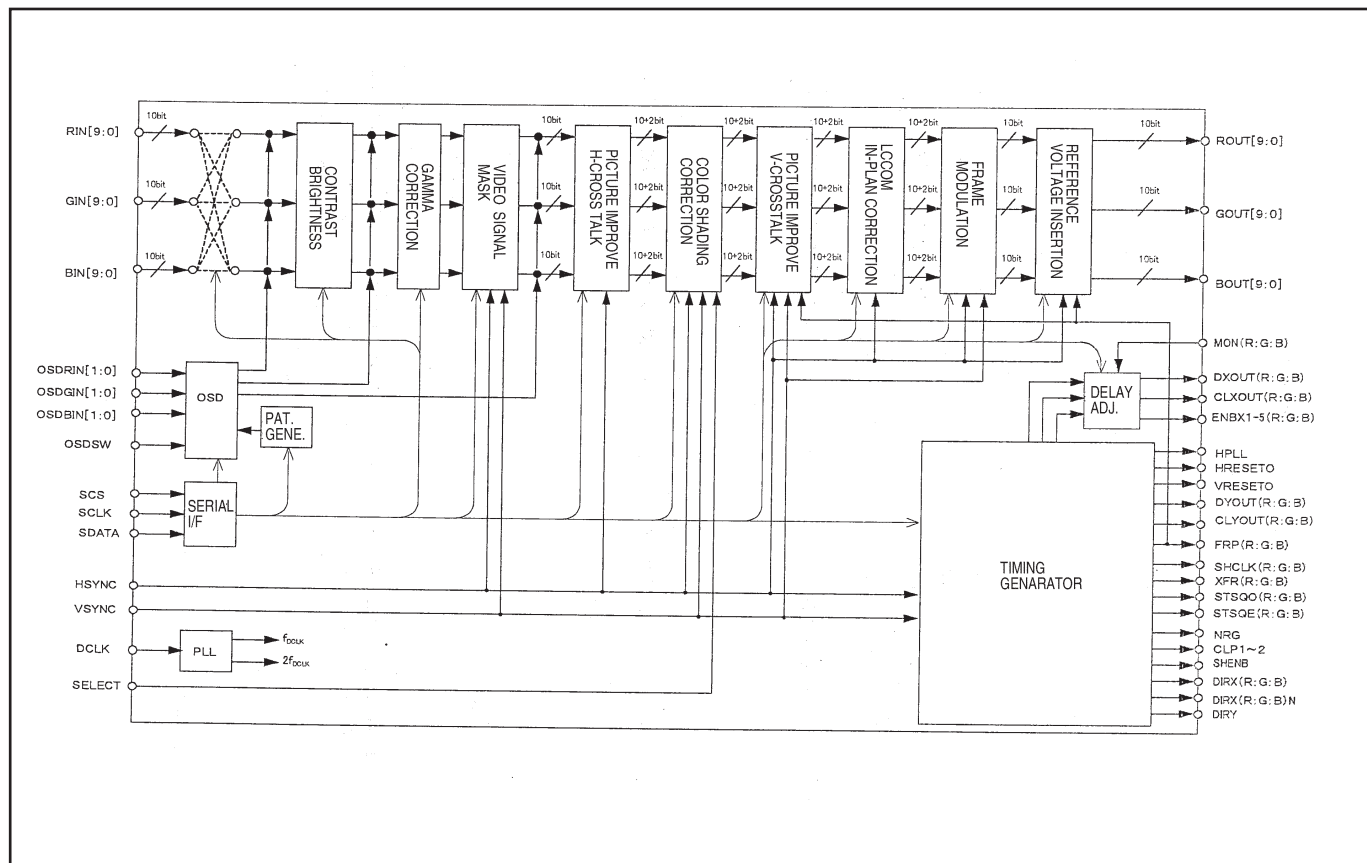
● FA5502 <P.F. Control, IC621>



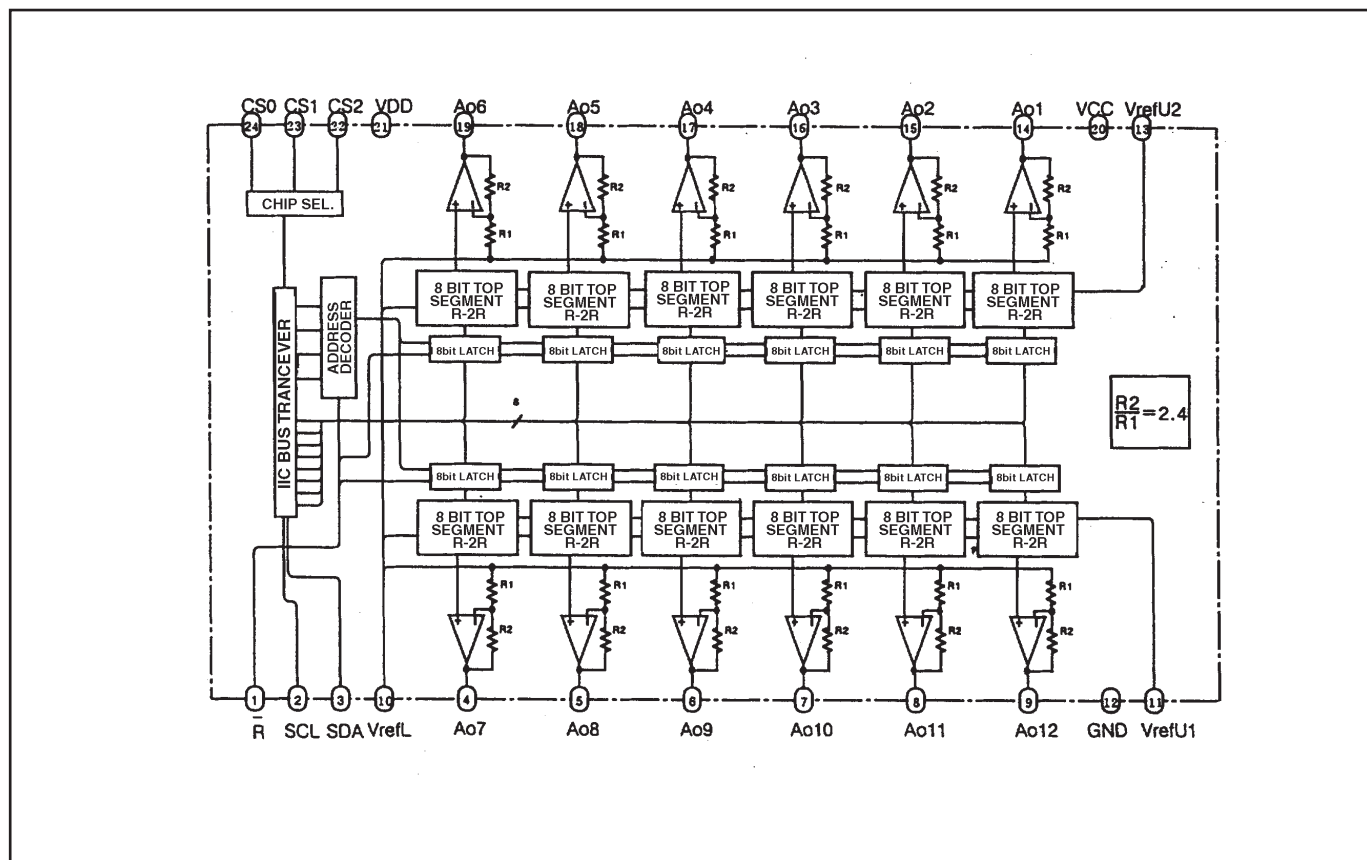
● L3E6100D <D/A, S/H-LCD Driver, IC501, IC531, IC561>



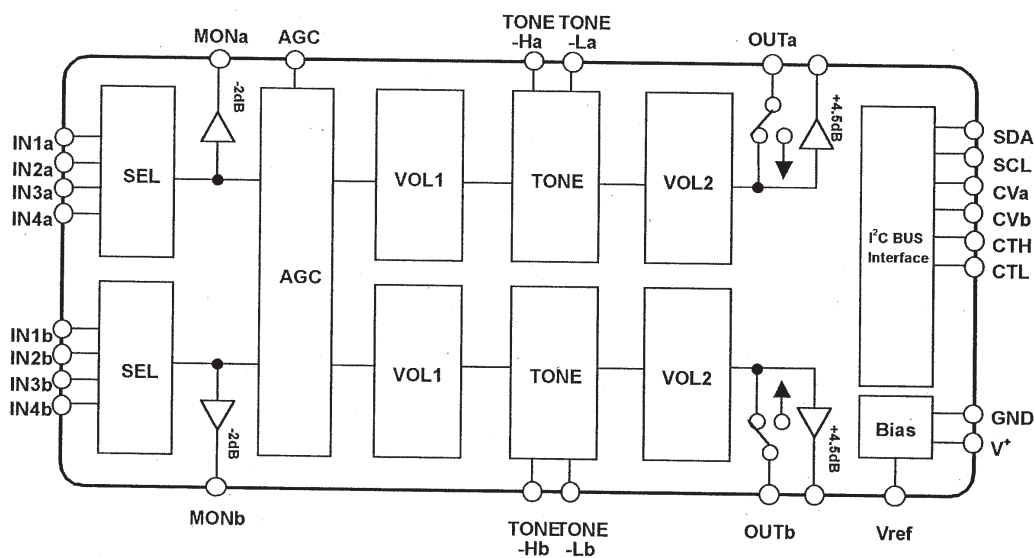
● L3E07072 <LCD Driver & Gamma Correction, IC401>



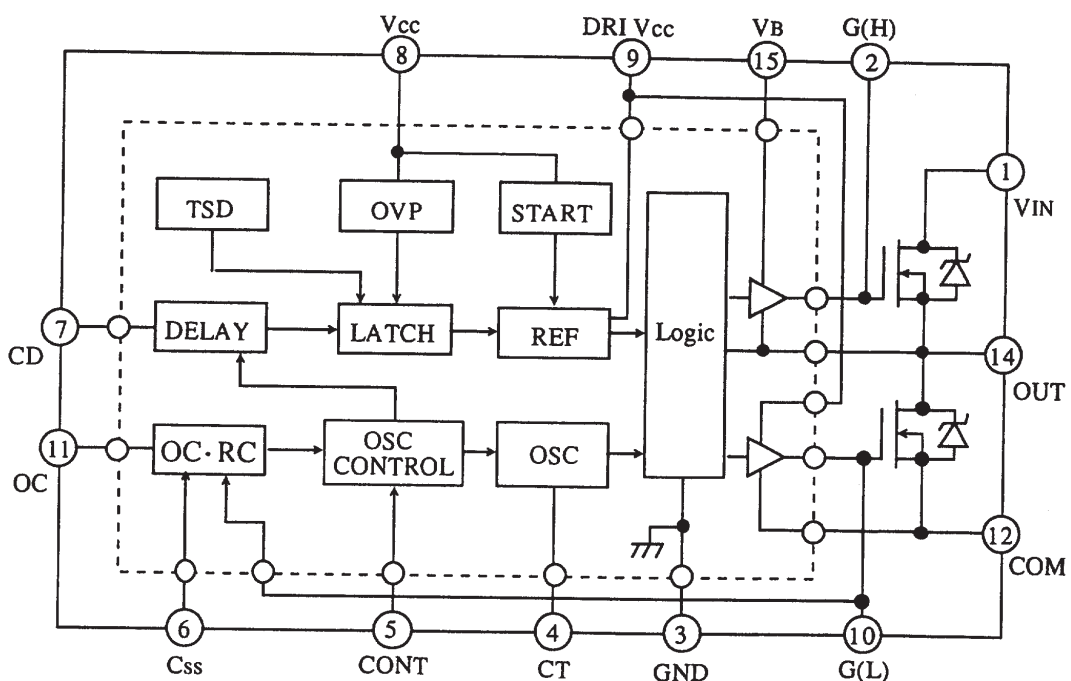
● M62399 <D/A, IC3531>



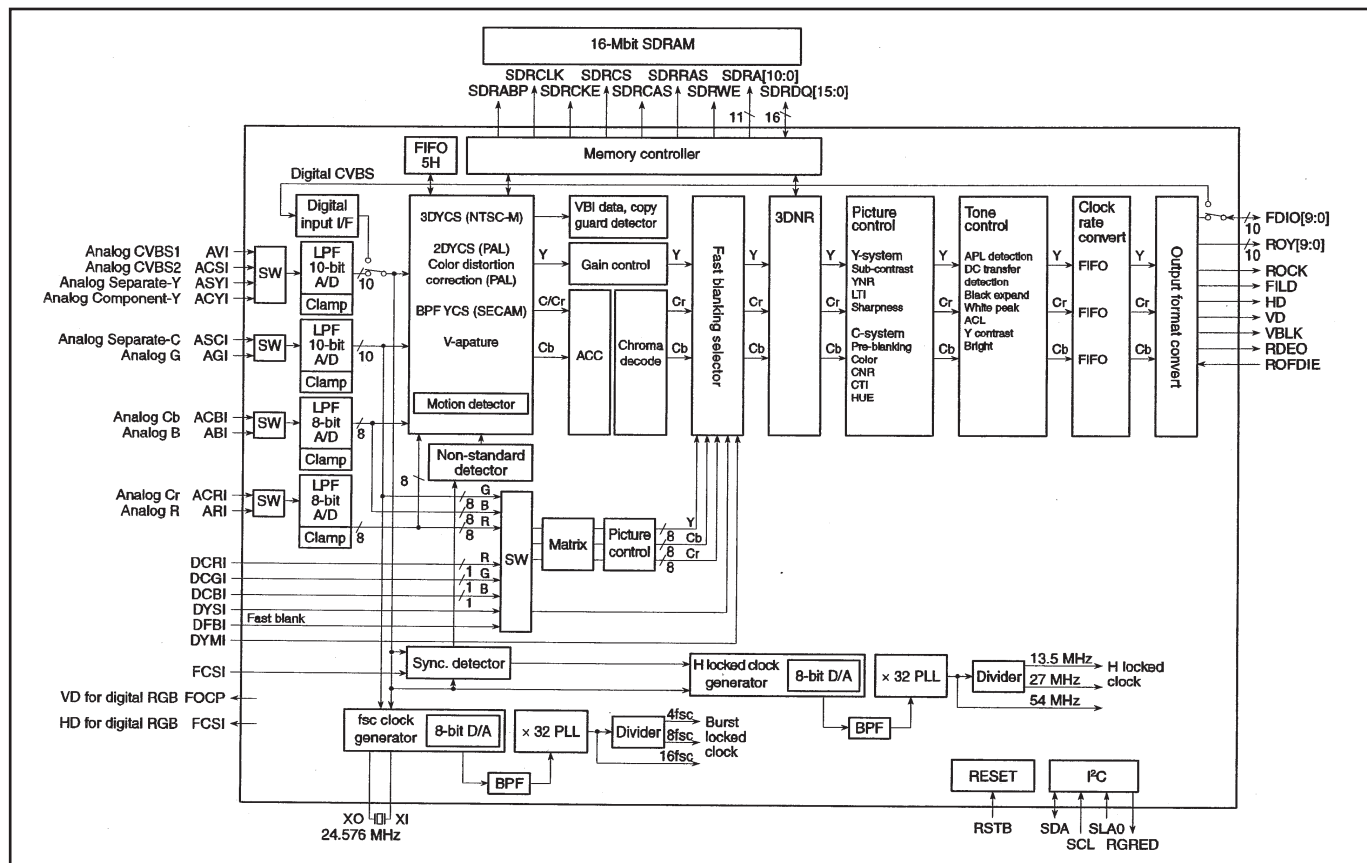
● NJW1141 <Audio Control, IC5001>



● STR-Z2156A <Power Switching, IC631>



● uPD64012 <Video Decoder, IC101>



Electrical Parts List

Product safety should be considered when a component replacement is made in any area of a projector. Components indicated by a Δ mark in this parts list and the circuit diagram show components whose value have special significance to product safety. It is particularly recommended that only parts specified on the following parts list be used for components replacement pointed out by the mark.

● Read Description in the parts list

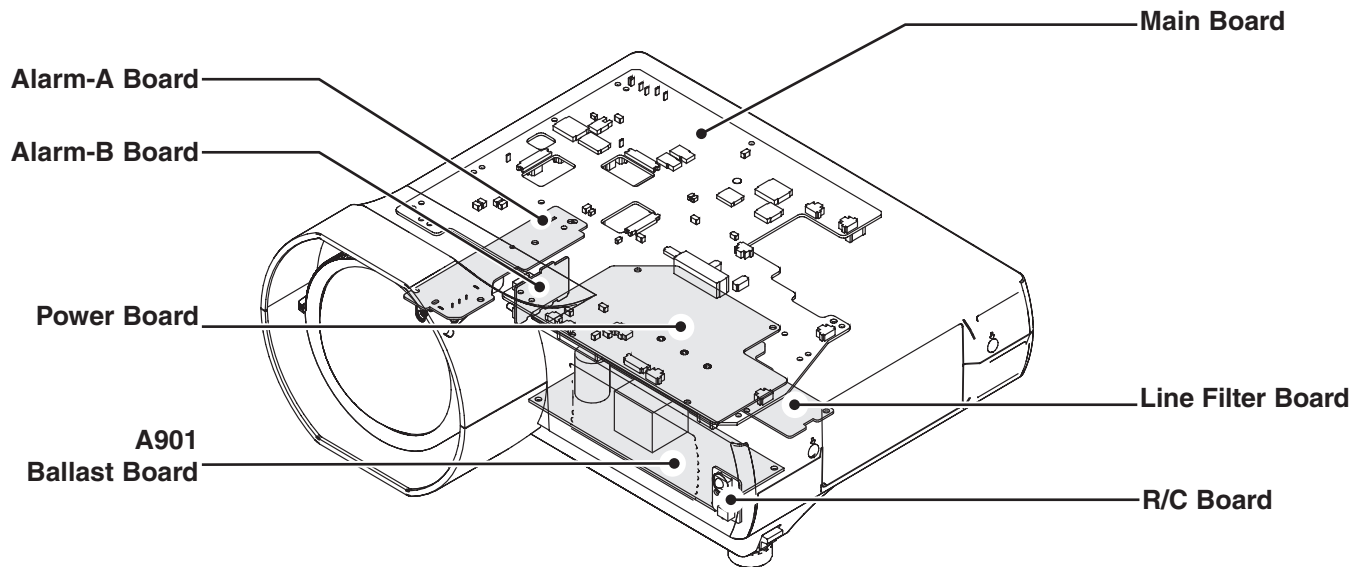
Read description in the Capacitor and Resistor as follows:

CAPACITOR	CERAMIC	100P	K	50V	
					Rated Voltage
					Tolerance Symbols:
					Less than 10pF
					A : Not specified B : $\pm 0.1\text{pF}$ C : $\pm 0.25\text{pF}$
					D : $\pm 0.5\text{pF}$ E : $\pm 0.1\text{pF}$ F : $\pm 1\text{pF}$
					G : $\pm 2\text{pF}$ H : $\pm 0.1 - 0\text{pF}$ L : $\pm 0 - 0.1\text{pF}$
					R : $\pm 0.25 - 0\text{pF}$ S : $\pm 0 - 0.25\text{pF}$
					More than 10pF
					A : Not specified B : $\pm 0.1\%$ C : $\pm 0.25\%$
					D : $\pm 0.5\%$ F : $\pm 1\%$ G : $\pm 2\%$
					H : $\pm 3\%$ J : $\pm 5\%$ K : $\pm 10\%$
					L : $\pm 15\%$ M : $\pm 20\%$ N : $\pm 30\%$
					P : $\pm 100 - 0\%$ Q : $\pm 30 - 10\%$ T : $\pm 50 - 10\%$
					U : $\pm 75 - 10\%$ V : $\pm 20 - 10\%$ W : $\pm 100 - 10\%$
					X : $\pm 40 - 20\%$ Y : $\pm 150 - 10\%$ Z : $\pm 80 - 20\%$
					Rated value: P=pico farad, U=micro farad
					Material:
					CERAMIC..... Ceramic
					MT-PAPER..... Metallized Paper
					POLYESTER..... Polyester
					MT-POLYEST..... Metallized Polyester
					POLYPRO..... Polypropylene
					MT-POLYPRO..... Metallized Polypropylene
					COMPO FILM..... Composite film
					MT-COMPO..... Metallized Composite
					STYRENE..... Styrene
					TA-SOLID..... Tantalum Oxide Solid Electrolytic
					AL-SOLID..... Aluminium Solid Electrolytic
					ELECT..... Aluminum Foil Electrolytic
					NP-ELECT..... Non-polarised Electrolytic
					OS-SOLID..... Aluminium Solid with Organic Semiconductive Electrolytic
					POS-SOLID..... Polymerized Organic Semiconductive
					DL-ELECT..... Double Layered Electrolytic
					PPS-FILM..... Polyphenylene Sulfide Film
					MT-PPS-FILM..... Metallized Polyphenylene Sulfide Film
					MT-PEN-FILM..... Metallized Polyethylenenaphthalate Film
					CAPACITOR..... Other
RESISTOR	CARBON	4.7K	J	A	1/4W
					Rated Wattage
					Performance Symbols:
					A: General B: Non flammable Z: Low noise
					Other: Temperature coefficient
					T: $\pm 10\text{ppm}/^\circ\text{C}$ U: $\pm 25\text{ppm}/^\circ\text{C}$ C: $\pm 50\text{ppm}/^\circ\text{C}$
					D: $\pm 100\text{ppm}/^\circ\text{C}$ E: $\pm 200\text{ppm}/^\circ\text{C}$ F: $\pm 250\text{ppm}/^\circ\text{C}$
					G: $\pm 350\text{ppm}/^\circ\text{C}$ H: $\pm 1000\text{ppm}/^\circ\text{C}\pm 10\%$ W: $\pm 1200\text{ppm}/^\circ\text{C}\pm 10\%$
					Y: $\pm 1400\text{ppm}/^\circ\text{C}\pm 10\%$ J: $\pm 2000\text{ppm}/^\circ\text{C}\pm 10\%$ K: $\pm 2400\text{ppm}/^\circ\text{C}\pm 10\%$
					L: $\pm 2700\text{ppm}/^\circ\text{C}\pm 10\%$ M: $\pm 3000\text{ppm}/^\circ\text{C}\pm 10\%$ N: $\pm 3300\text{ppm}/^\circ\text{C}\pm 10\%$
					P: $\pm 3600\text{ppm}/^\circ\text{C}\pm 10\%$ Q: $\pm 3900\text{ppm}/^\circ\text{C}\pm 10\%$ R: $\pm 4200\text{ppm}/^\circ\text{C}\pm 10\%$
					S: $\pm 4300\text{ppm}/^\circ\text{C}\pm 10\%$ V: $\pm 4500\text{ppm}/^\circ\text{C}\pm 10\%$ X: $\pm 8000\text{ppm}/^\circ\text{C}\pm 10\%$
					Tolerance Symbols:
					A: $\pm 0.05\%$ B: $\pm 0.1\%$ C: $\pm 0.25\%$ D: $\pm 0.5\%$
					F: $\pm 1\%$ G: $\pm 2\%$ J: $\pm 5\%$ K: $\pm 10\%$
					M: $\pm 20\%$ P: $\pm 5 - 15\%$ Z: 0 ohm
					Rated value, ohms:
					K: 1,000, M: 1,000,000
					Material:
					CARBON..... Carbon
					MT-FILM..... Metal Film
					OXIDE-MT..... Oxide Metal Film
					SOLID..... Composition
					MT-GLAZE..... Metal Glaze
					WIRE WOUND... Wire Wound
					CERAMIC RES.. Ceramic
					FUSIBLE RES... Fusible
					RESISTOR Other

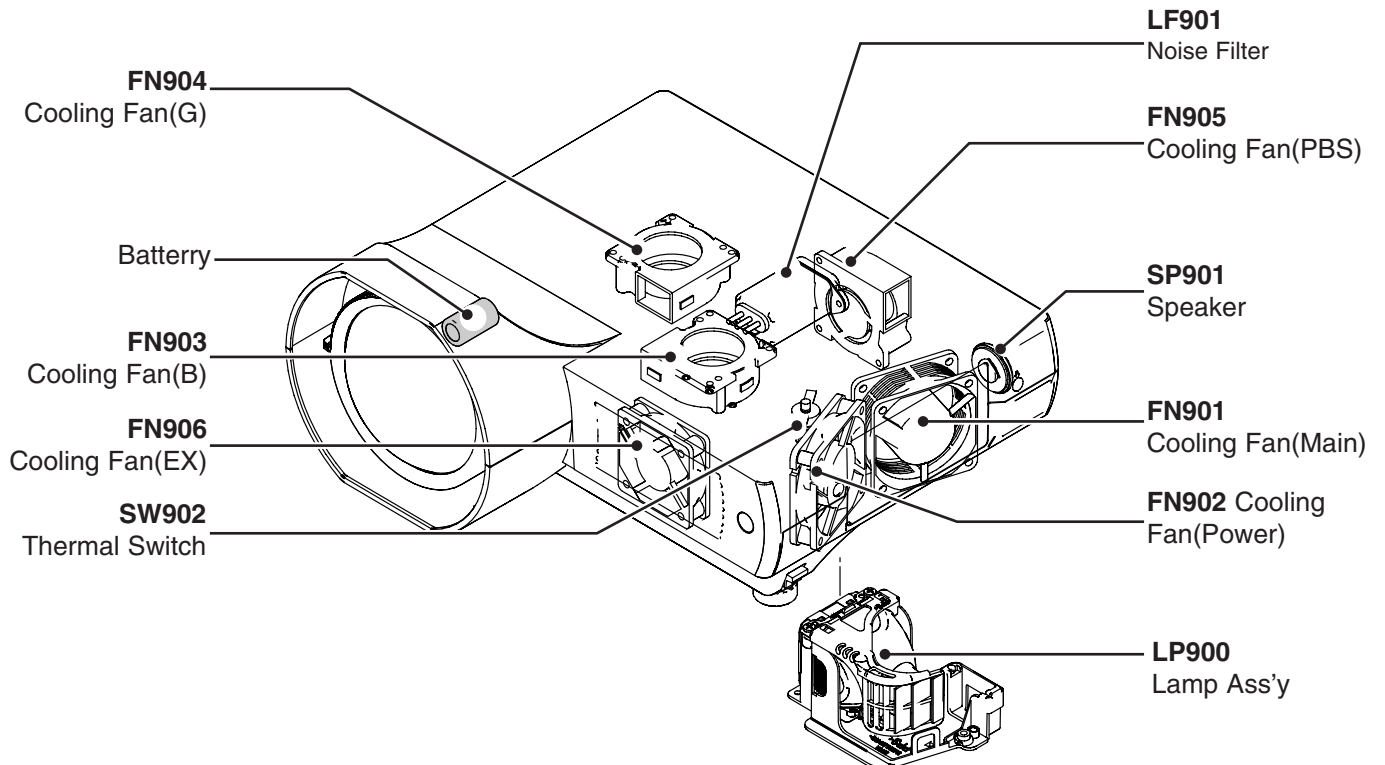
Electrical Parts List

Electrical Parts Location

● Assembled Boards



● OUT OF CIRCUIT BOARD



-60-

Electrical Parts List

Key No.	Part No.	Description			Key No.	Part No.	Description		
C652	303 427 6245	ELECT	1000U M	10V	R655	301 256 7311	MT-GLAZE	6.8K JA	1/10W
C653	303 437 4713	ELECT	470U M	16V	R656	301 256 6215	MT-GLAZE	270 JA	1/10W
C654	303 164 0217	CERAMIC	0.1U Z	25V	R657	301 150 6212	MT-GLAZE	1K JA	1/10W
C655	303 164 0217	CERAMIC	0.1U Z	25V	R658	301 150 6212	MT-GLAZE	1K JA	1/10W
C656	303 345 9619	CERAMIC	0.47U K	10V	R659	301 150 6212	MT-GLAZE	1K JA	1/10W
C657	303 157 6417	CERAMIC	330P K	50V	R660	301 162 3711	MT-GLAZE	4.7K JA	1/10W
C658	303 157 6417	CERAMIC	330P K	50V	R661	301 150 5918	MT-GLAZE	10K JA	1/10W
C659	303 199 6344	ELECT	1000U M	25V	R662	301 230 8013	MT-GLAZE	1K JA	1/3W
	303 400 6822	ELECT	1000U M	25V	R663	301 162 3711	MT-GLAZE	4.7K JA	1/10W
C660	303 164 0217	CERAMIC	0.1U Z	25V	R664	301 150 5918	MT-GLAZE	10K JA	1/10W
C661	303 358 3215	CERAMIC	10U K	6.3V	VARIABLE RESISTOR				
	303 368 7319	CERAMIC	10U K	6.3V	VR611	945 025 7415	VR,SEMI,1K S		
C691	303 400 7136	ELECT	330U M	25V	TRANSFORMER				
	304 106 9708	ELECT	330U M	25V	△ T651	945 077 6312	TRANS,POWER,PULSE		
C693	303 219 7829	ELECT	1000U M	10V		945 083 6948	TRANS,POWER,PULSE		
	303 400 5023	ELECT	1000U M	10V	COIL				
C694	303 400 3930	ELECT	1000U M	6.3V	△ L611	945 077 6572	LINE FILTER		
RESISTOR					L612	945 077 6565	INDUCTOR,900U		
R603	301 255 8517	MT-GLAZE	9.1K JA	1/10W		945 084 0273	INDUCTOR,1400U		
R604	301 256 6611	MT-GLAZE	68K JA	1/10W	DIODE				
R606	301 162 4015	MT-GLAZE	560 JA	1/10W	D611	307 191 3903	DIODE FML-G16S		
R607	301 162 2417	MT-GLAZE	1.2K JA	1/10W	D612	307 164 4015	DIODE RB160L-40-TE25		
R611	302 088 0102	RESISTER	0.15 KA	2W		307 149 6327	DIODE SFPB-54V		
R612	302 088 0102	RESISTER	0.15 KA	2W	D616	307 149 0810	DIODE 1SS355-TE-17		
R615	301 242 3914	MT-GLAZE	240K JA	1/2W	D617	307 149 0810	DIODE 1SS355-TE-17		
R616	301 242 3914	MT-GLAZE	240K JA	1/2W	D618	307 149 0810	DIODE 1SS355-TE-17		
R617	301 259 9015	MT-GLAZE	150K FA	1/2W	D619	307 149 0810	DIODE 1SS355-TE-17		
R618	301 259 9015	MT-GLAZE	150K FA	1/2W	D62R	307 149 0810	DIODE 1SS355-TE-17		
R619	301 259 9015	MT-GLAZE	150K FA	1/2W	D631	307 247 8827	DIODE RF101L2S		
R61A	301 275 2915	MT-GLAZE	68K JA	1W		307 190 4119	DIODE SFPL-52V		
R61B	301 275 2915	MT-GLAZE	68K JA	1W	D633	307 221 7119	ZENER DIODE UDZS-TE-1712B		
R61E	301 275 2915	MT-GLAZE	68K JA	1W	D636	307 226 7114	DIODE SC311-06		
R61F	301 275 2915	MT-GLAZE	68K JA	1W	D651	307 222 9607	DIODE FMB-2306		
R620	301 259 9015	MT-GLAZE	150K FA	1/2W		307 202 9801	DIODE FMB-26L		
R623	301 162 3711	MT-GLAZE	4.7K JA	1/10W		307 253 7504	DIODE RB085T-60		
R62A	301 256 3818	MT-GLAZE	1.5K JA	1/10W		307 250 2403	DIODE RB225T-60		
R62B	301 150 5918	MT-GLAZE	10K JA	1/10W	D652	307 222 9607	DIODE FMB-2306		
R62C	301 162 3810	MT-GLAZE	470K JA	1/10W		307 202 9801	DIODE FMB-26L		
R62D	301 255 6810	MT-GLAZE	30K JA	1/10W		307 253 7504	DIODE RB085T-60		
R62E	301 256 3719	MT-GLAZE	750 JA	1/10W		307 250 2403	DIODE RB225T-60		
R62F	301 264 2810	MT-GLAZE	1.2K FA	1/10W	D653	307 247 8827	DIODE RF101L2S		
R62G	301 255 6513	MT-GLAZE	100 JA	1/10W	D654	307 209 1214	ZD UDZS-TE-176.2B		
R62H	301 152 3219	MT-GLAZE	330 JA	1/10W	DB611	307 202 7708	DIODE D10XB60		
R62I	301 265 0914	MT-GLAZE	4.7 JA	1/10W	MISCELLANEOUS				
R62J	301 162 2714	MT-GLAZE	180 JA	1/10W	FB611	910 244 3975	CORE		
R62L	301 256 2613	MT-GLAZE	2.4K JA	1/10W	FB613	910 244 3975	CORE		
R62M	301 256 7519	MT-GLAZE	390 JA	1/10W	FB691	910 244 3975	CORE		
R62P	301 256 6314	MT-GLAZE	47K JA	1/10W	FB693	910 244 3975	CORE		
R62Q	301 255 8715	MT-GLAZE	22 JA	1/10W	FB694	307 210 5416	DIODE RB551V-30-TE-17		
R62R	301 256 4716	MT-GLAZE	5.6M JA	1/10W	△ PC641	307 223 7315	PC TLP421F(D4-GB-TP4)		
R62T	301 255 9514	MT-GLAZE	220K JA	1/10W		307 223 8312	PC TLP421F(D4-GR-TP4)		
△ R631	324 006 1305	FUSE	250V	2.5A	△ PC642	307 223 7315	PC TLP421F(D4-GB-TP4)		
R633	301 323 4618	MT(LEADFREE	15 JA	3/4W		307 223 8312	PC TLP421F(D4-GR-TP4)		
R634	301 238 4512	MT-GLAZE	47 JA	1/3W	△ PC643	307 223 7315	PC TLP421F(D4-GB-TP4)		
R635	301 150 6212	MT-GLAZE	1K JA	1/10W		307 223 8312	PC TLP421F(D4-GR-TP4)		
R636	301 257 7419	MT-GLAZE	120 JA	1/3W		307 223 7315	PC TLP421F(D4-GB-TP4)		
R637	301 162 3711	MT-GLAZE	4.7K JA	1/10W		307 223 8312	PC TLP421F(D4-GR-TP4)		
R638	301 150 5918	MT-GLAZE	10K JA	1/10W	PTH611	308 037 5501	THERMISTOR NTH11D5R0LC		
R639	301 256 2613	MT-GLAZE	2.4K JA	1/10W	PTH612	308 053 9101	THERMISTOR PTFM04BC222Q2N34B0		
R641	301 188 0114	MT-GLAZE	18K JA	1/4W	610 332 4319 ASSY,PWB,LINE FILTER LG6A				
R646	301 150 5918	MT-GLAZE	10K JA	1/10W	CAPACITOR				
R647	301 256 5911	MT-GLAZE	2.7K JA	1/10W	△ C601	304 079 5608	MT-POLYEST	0.47U M	275V
R648	301 256 3610	MT-GLAZE	15K JA	1/10W					
R651	301 150 6212	MT-GLAZE	1K JA	1/10W					
R652	301 162 2219	MT-GLAZE	10 JA	1/10W					
R653	301 326 1713	MT-GLAZE	10K DA	1/10W					
R654	301 152 3219	MT-GLAZE	330 JA	1/10W					

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
△C602	304 094 2002	MT-POLYEST 0.47U K 275V	Q1801	305 191 5814	TR 3LN01C-TB-E
	304 079 5608	MT-POLYEST 0.47U M 275V	Q1802	305 191 5814	TR 3LN01C-TB-E
	304 094 2002	MT-POLYEST 0.47U K 275V	Q1803	305 014 4512	TR 2SC2412K T146 R
RESISTOR				305 014 4611	TR 2SC2412K T146 S
△R601	301 287 9018	MT-GLAZE 470K JA 1W		305 015 8727	TR 2SC2812-L6-TB
△R602	301 287 9018	MT-GLAZE 470K JA 1W		305 015 8925	TR 2SC2812-L7-TB
VARIABLE RESISTOR				305 163 1615	TR 2SC2812N-L6-TB0
△VA601	308 061 5607	VARISTOR ENE471D-14A-S6		305 173 9816	TR 2SC3928A1R
COIL				305 173 9915	TR 2SC3928A1S
△L601	945 050 2232	LINE FILTER	Q2011	305 014 4512	TR 2SC2412K T146 R
MISCELLANEOUS				305 014 4611	TR 2SC2412K T146 S
△F601	323 021 7804	FUSE 250V 6.3A		305 015 8727	TR 2SC2812-L6-TB
SW901	945 063 8078	SWITCH,PUSH 2P-2TX3		305 015 8925	TR 2SC2812-L7-TB
				305 163 1615	TR 2SC2812N-L6-TB0
				305 173 9816	TR 2SC3928A1R
				305 173 9915	TR 2SC3928A1S
			Q2021	305 014 4512	TR 2SC2412K T146 R
				305 014 4611	TR 2SC2412K T146 S
				305 015 8727	TR 2SC2812-L6-TB
				305 015 8925	TR 2SC2812-L7-TB
				305 163 1615	TR 2SC2812N-L6-TB0
				305 173 9816	TR 2SC3928A1R
				305 173 9915	TR 2SC3928A1S
			Q2031	305 014 4512	TR 2SC2412K T146 R
				305 014 4611	TR 2SC2412K T146 S
				305 015 8727	TR 2SC2812-L6-TB
				305 015 8925	TR 2SC2812-L7-TB
				305 163 1615	TR 2SC2812N-L6-TB0
				305 173 9816	TR 2SC3928A1R
				305 173 9915	TR 2SC3928A1S
			Q2501	305 002 8327	TR 2SA1203-Y-TE12L
			Q2502	305 217 5019	TR RN1117 TE85L
			Q3051	305 014 4512	TR 2SC2412K T146 R
				305 014 4611	TR 2SC2412K T146 S
				305 015 8727	TR 2SC2812-L6-TB
				305 015 8925	TR 2SC2812-L7-TB
				305 163 1615	TR 2SC2812N-L6-TB0
				305 173 9816	TR 2SC3928A1R
				305 173 9915	TR 2SC3928A1S
			Q3581	305 014 4512	TR 2SC2412K T146 R
				305 014 4611	TR 2SC2412K T146 S
				305 015 8727	TR 2SC2812-L6-TB
				305 015 8925	TR 2SC2812-L7-TB
				305 163 1615	TR 2SC2812N-L6-TB0
				305 173 9816	TR 2SC3928A1R
				305 173 9915	TR 2SC3928A1S
			Q3582	305 002 8327	TR 2SA1203-Y-TE12L
			Q3601	305 014 4512	TR 2SC2412K T146 R
				305 014 4611	TR 2SC2412K T146 S
				305 015 8727	TR 2SC2812-L6-TB
				305 015 8925	TR 2SC2812-L7-TB
				305 163 1615	TR 2SC2812N-L6-TB0
				305 173 9816	TR 2SC3928A1R
				305 173 9915	TR 2SC3928A1S
			Q3801	305 191 5814	TR 3LN01C-TB-E
			Q4001	305 134 5928	TR 2SA1037AK-T146-R
				305 147 2218	TR 2SA1037AK-S-T146
				305 002 0311	TR 2SA1037K T146 R
				305 002 0410	TR 2SA1037K T146 S
				305 002 6729	TR 2SA1179-M6-TB
				305 002 6927	TR 2SA1179-M7-TB
				305 163 1516	TR 2SA1179N-M6-TB
				305 173 9618	TR 2SA1235A1E
				305 173 9717	TR 2SA1235A1F
			Q4011	305 134 5928	TR 2SA1037AK-T146-R
				305 147 2218	TR 2SA1037AK-S-T146
				305 002 0311	TR 2SA1037K T146 R

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
Q4014	305 002 0410	TR 2SA1037K T146 S	Q5081	305 015 8925	TR 2SC2812-L7-TB
	305 002 6729	TR 2SA1179-M6-TB		305 163 1615	TR 2SC2812N-L6-TB0
	305 002 6927	TR 2SA1179-M7-TB		305 173 9816	TR 2SC3928A1R
	305 163 1516	TR 2SA1179N-M6-TB		305 173 9915	TR 2SC3928A1S
	305 173 9618	TR 2SA1235A1E		305 014 4512	TR 2SC2412K T146 R
	305 173 9717	TR 2SA1235A1F		305 014 4611	TR 2SC2412K T146 S
	305 166 3210	TR RN1113-TE85L		305 015 8727	TR 2SC2812-L6-TB
	305 217 4913	TR RN1111 TE85L		305 015 8925	TR 2SC2812-L7-TB
	305 014 4512	TR 2SC2412K T146 R		305 163 1615	TR 2SC2812N-L6-TB0
	305 014 4611	TR 2SC2412K T146 S	Q5203	305 173 9816	TR 2SC3928A1R
Q5031	305 015 8727	TR 2SC2812-L6-TB		305 173 9915	TR 2SC3928A1S
	305 015 8925	TR 2SC2812-L7-TB		305 014 4512	TR 2SC2412K T146 R
	305 163 1615	TR 2SC2812N-L6-TB0		305 014 4611	TR 2SC2412K T146 S
	305 173 9816	TR 2SC3928A1R		305 015 8727	TR 2SC2812-L6-TB
	305 173 9915	TR 2SC3928A1S		305 015 8925	TR 2SC2812-L7-TB
	305 014 4512	TR 2SC2412K T146 R		305 163 1615	TR 2SC2812N-L6-TB0
	305 014 4611	TR 2SC2412K T146 S		305 173 9816	TR 2SC3928A1R
	305 015 8727	TR 2SC2812-L6-TB		305 173 9915	TR 2SC3928A1S
	305 015 8925	TR 2SC2812-L7-TB		305 217 5118	TR HN1A01FE-Y TE85L
	305 163 1615	TR 2SC2812N-L6-TB0	Q5261	305 217 5118	TR HN1A01FE-Y TE85L
Q5032	305 173 9816	TR 2SC3928A1R	Q5271	305 217 5118	TR HN1A01FE-Y TE85L
	305 173 9915	TR 2SC3928A1S	Q5281	305 217 4913	TR RN1111 TE85L
	305 014 4512	TR 2SC2412K T146 R	Q5282	305 217 5217	TR RN1110 TE85L
	305 014 4611	TR 2SC2412K T146 S	Q5283	305 217 5217	TR RN1110 TE85L
	305 015 8727	TR 2SC2812-L6-TB	Q5284	305 217 4913	TR RN1111 TE85L
	305 015 8925	TR 2SC2812-L7-TB	Q5286	305 217 4913	TR RN1111 TE85L
	305 163 1615	TR 2SC2812N-L6-TB0	Q5287	305 217 4913	TR RN1111 TE85L
	305 173 9816	TR 2SC3928A1R	Q5288	305 166 3210	TR RN1113-TE85L
	305 173 9915	TR 2SC3928A1S	Q5301	305 014 4512	TR 2SC2412K T146 R
	305 014 4512	TR 2SC2412K T146 R		305 014 4611	TR 2SC2412K T146 S
Q5033	305 014 4611	TR 2SC2412K T146 S		305 015 8727	TR 2SC2812-L6-TB
	305 015 8727	TR 2SC2812-L6-TB		305 015 8925	TR 2SC2812-L7-TB
	305 015 8925	TR 2SC2812-L7-TB		305 163 1615	TR 2SC2812N-L6-TB0
	305 163 1615	TR 2SC2812N-L6-TB0		305 173 9816	TR 2SC3928A1R
	305 173 9816	TR 2SC3928A1R		305 173 9915	TR 2SC3928A1S
	305 173 9915	TR 2SC3928A1S	Q5302	305 134 5928	TR 2SA1037AK-T146-R
	305 014 4512	TR 2SC2412K T146 R		305 147 2218	TR 2SA1037AK-S-T146
	305 014 4611	TR 2SC2412K T146 S		305 002 0311	TR 2SA1037K T146 R
	305 015 8727	TR 2SC2812-L6-TB		305 002 0410	TR 2SA1037K T146 S
	305 015 8925	TR 2SC2812-L7-TB		305 002 6729	TR 2SA1179-M6-TB
	305 163 1615	TR 2SC2812N-L6-TB0		305 002 6927	TR 2SA1179-M7-TB
	305 173 9816	TR 2SC3928A1R		305 163 1516	TR 2SA1179N-M6-TB
	305 173 9915	TR 2SC3928A1S		305 173 9618	TR 2SA1235A1E
	305 014 4512	TR 2SC2412K T146 R		305 173 9717	TR 2SA1235A1F
	305 014 4611	TR 2SC2412K T146 S	Q5303	305 134 5928	TR 2SA1037AK-T146-R
Q5034	305 015 8727	TR 2SC2812-L6-TB		305 147 2218	TR 2SA1037AK-S-T146
	305 015 8925	TR 2SC2812-L7-TB		305 002 0311	TR 2SA1037K T146 R
	305 163 1615	TR 2SC2812N-L6-TB0		305 002 0410	TR 2SA1037K T146 S
	305 173 9816	TR 2SC3928A1R		305 002 6729	TR 2SA1179-M6-TB
	305 173 9915	TR 2SC3928A1S		305 002 6927	TR 2SA1179-M7-TB
	305 014 4512	TR 2SC2412K T146 R		305 163 1516	TR 2SA1179N-M6-TB
	305 014 4611	TR 2SC2412K T146 S		305 173 9618	TR 2SA1235A1E
	305 015 8727	TR 2SC2812-L6-TB		305 173 9717	TR 2SA1235A1F
	305 015 8925	TR 2SC2812-L7-TB		305 014 4512	TR 2SC2412K T146 R
	305 163 1615	TR 2SC2812N-L6-TB0		305 014 4611	TR 2SC2412K T146 S
Q5036	305 173 9816	TR 2SC3928A1R	Q5304	305 015 8727	TR 2SC2812-L6-TB
	305 173 9915	TR 2SC3928A1S		305 015 8925	TR 2SC2812-L7-TB
	305 014 4512	TR 2SC2412K T146 R		305 163 1615	TR 2SC2812N-L6-TB0
	305 014 4611	TR 2SC2412K T146 S		305 173 9816	TR 2SC3928A1R
	305 015 8727	TR 2SC2812-L6-TB		305 173 9915	TR 2SC3928A1S
	305 015 8925	TR 2SC2812-L7-TB		306 017 8405	TR RTQ025P02-TR
	305 163 1615	TR 2SC2812N-L6-TB0	Q5611	306 017 8405	TR RTQ025P02-TR
	305 173 9816	TR 2SC3928A1R	Q6841	305 014 4512	TR 2SC2412K T146 R
	305 173 9915	TR 2SC3928A1S		305 014 4611	TR 2SC2412K T146 S
	305 014 4512	TR 2SC2412K T146 R		305 015 8727	TR 2SC2812-L6-TB
Q5061	305 014 4611	TR 2SC2412K T146 S		305 015 8925	TR 2SC2812-L7-TB
	305 015 8727	TR 2SC2812-L6-TB		305 163 1615	TR 2SC2812N-L6-TB0
	305 015 8925	TR 2SC2812-L7-TB			
	305 163 1615	TR 2SC2812N-L6-TB0			
	305 173 9816	TR 2SC3928A1R			
	305 173 9915	TR 2SC3928A1S			
	305 014 4512	TR 2SC2412K T146 R			
	305 014 4611	TR 2SC2412K T146 S			
	305 015 8727	TR 2SC2812-L6-TB			
	305 015 8925	TR 2SC2812-L7-TB			
Q5062	305 163 1615	TR 2SC2812N-L6-TB0			
	305 173 9816	TR 2SC3928A1R			
	305 173 9915	TR 2SC3928A1S			
	305 014 4512	TR 2SC2412K T146 R			
	305 014 4611	TR 2SC2412K T146 S			
	305 015 8727	TR 2SC2812-L6-TB			
	305 015 8925	TR 2SC2812-L7-TB			
	305 163 1615	TR 2SC2812N-L6-TB0			
	305 173 9816	TR 2SC3928A1R			
	305 173 9915	TR 2SC3928A1S			
Q5063	305 014 4512	TR 2SC2412K T146 R			
	305 014 4611	TR 2SC2412K T146 S			
	305 015 8727	TR 2SC2812-L6-TB			
	305 015 8925	TR 2SC2812-L7-TB			
	305 163 1615	TR 2SC2812N-L6-TB0			
	305 173 9816	TR 2SC3928A1R			
	305 173 9915	TR 2SC3928A1S			
	305 014 4512	TR 2SC2412K T146 R			
	305 014 4611	TR 2SC2412K T146 S			
	305 015 8727	TR 2SC2812-L6-TB			
Q5064	305 015 8925	TR 2SC2812-L7-TB			
	305 163 1615	TR 2SC2812N-L6-TB0			
	305 173 9816	TR 2SC3928A1R			
	305 173 9915	TR 2SC3928A1S			
	305 014 4512	TR 2SC2412K T146 R			
	305 014 4611	TR 2SC2412K T146 S			
	305 015 8727	TR 2SC2812-L6-TB			

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
Q6842	305 173 9816	TR 25C3928A1R	IC491	309 555 6417	IC SI-3018KS-TL
	305 173 9915	TR 25C3928A1S	IC5001	309 564 1519	IC NJW1141M
	305 014 4512	TR 25C2412K T146 R	IC5031	309 594 1916	IC LM4889MM
	305 014 4611	TR 25C2412K T146 S	IC5081	309 398 1914	IC L88MS05TL-TL
	305 015 8727	TR 25C2812-L6-TB	IC5201	309 530 7217	IC AN5870SB-E1V
Q6843	305 015 8925	TR 25C2812-L7-TB	IC5301	309 484 2016	IC BA7078AF-E2
	305 163 1615	TR 25C2812N-L6-TB0	IC5302	309 439 8919	IC TC7WH125FU
	305 173 9816	TR 25C3928A1R	IC5601	309 416 6518	IC BA05FP-E2
	305 173 9915	TR 25C3928A1S		309 591 8611	IC BA50BC0FP
	305 014 4512	TR 25C2412K T146 R	IC5631	309 555 6516	IC SI-3033ZD-TL
Q6844	305 014 4611	TR 25C2412K T146 S	IC5641	309 563 9615	IC SI-3012KS-TL
	305 015 8727	TR 25C2812-L6-TB	IC5642	309 497 6315	IC BA09FP-E2
	305 015 8925	TR 25C2812-L7-TB	IC5651	309 555 6318	IC BA9743AFV-E2
	305 163 1615	TR 25C2812N-L6-TB0	IC5681	309 563 9615	IC SI-3012KS-TL
	305 173 9816	TR 25C3928A1R	IC7811	309 531 6229	IC FA7701V-TE1
Q6846	305 173 9915	TR 25C3928A1S	IC7861	309 531 6229	IC FA7701V-TE1
	305 014 4512	TR 25C2412K T146 R	IC801	410 625 6309	IC S29GL032A90TFIR30-0772
	305 014 4611	TR 25C2412K T146 S	IC8201	310 519 2007	IC AD9883AKSTZ-140
	305 015 8727	TR 25C2812-L6-TB	IC8291	309 592 8511	IC BA15BC0FP
	305 015 8925	TR 25C2812-L7-TB	IC841	309 480 1320	IC PST573IM
Q6847	305 163 1615	TR 25C2812N-L6-TB0	IC842	309 350 2911	IC TC7W126FU-(TE12L)
	305 173 9816	TR 25C3928A1R	IC844	309 155 8019	IC TC7S04F-TE85L
	305 173 9915	TR 25C3928A1S	IC8811	309 481 8615	IC LM76CHMX-5
	305 002 8327	TR 25A1203-Y-TE12L	IC8821	309 481 8615	IC LM76CHMX-5
	305 014 4512	TR 25C2412K T146 R	IC8831	309 481 8615	IC LM76CHMX-5
Q7801	305 014 4611	TR 25C2412K T146 S	IC891	310 337 0605	IC HD74LVC14T
	305 015 8727	TR 25C2812-L6-TB	IC9882	309 464 1411	IC TC74ACT14FT
	305 015 8925	TR 25C2812-L7-TB	CAPACITOR		
	305 163 1615	TR 25C2812N-L6-TB0	C102	403 455 9018	CERAMIC 10U K 16V
	305 173 9816	TR 25C3928A1R		303 379 6714	CERAMIC 10U K 16V
Q7803	305 173 9915	TR 25C3928A1S	C103	303 454 0514	CERAMIC 0.1U Z 25V
	305 217 5019	TR RN1117 TE85L		303 343 3718	CERAMIC 0.1U Z 25V
	305 128 9618	TR 25C2411K-T146-Q	C104	303 449 1212	POS-SOLID 47U M 6.3V
	305 217 5019	TR RN1117 TE85L	C1041	303 453 9716	CERAMIC 0.022U K 25V
	305 217 8515	TR RSQ025P03-TR		303 442 0410	CERAMIC 0.022U K 25V
Q7811	305 139 7719	TR IMZ1A-T108	C105	303 454 0514	CERAMIC 0.1U Z 25V
	305 217 5019	TR RN1117 TE85L		303 343 3718	CERAMIC 0.1U Z 25V
	305 217 8515	TR RSQ025P03-TR	C1091	303 453 9716	CERAMIC 0.022U K 25V
	305 139 7719	TR IMZ1A-T108		303 442 0410	CERAMIC 0.022U K 25V
	305 134 5928	TR 25A1037AK-T146-R	C130	303 454 0415	CERAMIC 0.068U K 16V
Q7812	305 147 2218	TR 25A1037AK-S-T146		303 442 0519	CERAMIC 0.068U K 16V
	305 002 0311	TR 25A1037K T146 R	C1301	303 454 0514	CERAMIC 0.1U Z 25V
	305 002 0410	TR 25A1037K T146 S		303 343 3718	CERAMIC 0.1U Z 25V
	305 002 6729	TR 25A1179-M6-TB	C131	303 454 0415	CERAMIC 0.068U K 16V
	305 002 6927	TR 25A1179-M7-TB		303 442 0519	CERAMIC 0.068U K 16V
Q7813	305 163 1516	TR 25A1179N-M6-TB	C132	303 454 0415	CERAMIC 0.068U K 16V
	305 173 9618	TR 25A1235A1E		303 442 0519	CERAMIC 0.068U K 16V
	305 173 9717	TR 25A1235A1F	C133	303 454 0415	CERAMIC 0.068U K 16V
				303 442 0519	CERAMIC 0.068U K 16V
			C1331	303 453 7118	CERAMIC 12P J 50V
INTEGRATED CIRCUIT				303 453 9112	CERAMIC 12P J 50V
IC101	309 635 1219	IC UPD64012GJ		303 276 2918	CERAMIC 12P J 50V
IC1303	310 479 4004	IC TC7WBD125AFK	C1332	303 453 7118	CERAMIC 12P J 50V
IC1321	309 458 2318	IC TC7SZ32FU-TE85L		303 453 9112	CERAMIC 12P J 50V
IC1371	310 538 4907	IC 24LC64T-I/SNG		303 276 2918	CERAMIC 12P J 50V
IC161	309 416 6419	IC BA033FP-E2	C134	303 454 0415	CERAMIC 0.068U K 16V
IC1801	309 588 6316	IC BA33BC0FP		303 442 0519	CERAMIC 0.068U K 16V
	309 671 7817	IC TE7783APF	C135	303 454 0415	CERAMIC 0.068U K 16V
	309 633 6117	IC TE7783PF		303 442 0519	CERAMIC 0.068U K 16V
	309 534 1716	IC SI-3025LSA-TL	C136	303 454 0415	CERAMIC 0.068U K 16V
	309 649 1311	IC PW186-10L		303 442 0519	CERAMIC 0.068U K 16V
IC3501	309 246 9710	IC LA6358NM-TE-L	C137	303 454 0415	CERAMIC 0.068U K 16V
IC3531	309 428 9613	IC M62399FP-DF0Q		303 442 0519	CERAMIC 0.068U K 16V
IC3541	309 545 5710	IC XC6202P502M	C1371	303 454 0514	CERAMIC 0.1U Z 25V
IC3801	309 670 0819	IC HIN232ECBZ-T		303 343 3718	CERAMIC 0.1U Z 25V
IC4011	309 466 6919	IC SP232ECT-L	C138	303 454 0415	CERAMIC 0.068U K 16V
	310 358 1506	IC TC74HC4053AFT(EL)		303 442 0519	CERAMIC 0.068U K 16V
	310 348 7501	IC TC7WT241FU(TE12L)			
	309 404 7213	IC TC7SET00FU-(TE85L)			

Electrical Parts List

Key No.	Part No.	Description			Key No.	Part No.	Description		
C139	303 454 0415	CERAMIC	0.068U K	16V		303 387 4917	ELECT	100U M	6.3V
	303 442 0519	CERAMIC	0.068U K	16V	C1801	303 454 0514	CERAMIC	0.1U Z	25V
C140	403 455 9018	CERAMIC	10U K	16V		303 343 3718	CERAMIC	0.1U Z	25V
	303 379 6714	CERAMIC	10U K	16V	C1802	303 454 0514	CERAMIC	0.1U Z	25V
C141	303 454 0514	CERAMIC	0.1U Z	25V		303 343 3718	CERAMIC	0.1U Z	25V
	303 343 3718	CERAMIC	0.1U Z	25V	C1803	303 454 0514	CERAMIC	0.1U Z	25V
C142	303 454 0514	CERAMIC	0.1U Z	25V		303 343 3718	CERAMIC	0.1U Z	25V
	303 343 3718	CERAMIC	0.1U Z	25V	C1804	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
C143	303 454 0514	CERAMIC	0.1U Z	25V	C1805	403 460 5517	CERAMIC	8P D	50V
	303 343 3718	CERAMIC	0.1U Z	25V		403 460 5418	CERAMIC	8P D	50V
C144	303 454 0514	CERAMIC	0.1U Z	25V		303 311 7816	CERAMIC	8P D	50V
	303 343 3718	CERAMIC	0.1U Z	25V	C1806	303 454 0514	CERAMIC	0.1U Z	25V
C145	303 454 0514	CERAMIC	0.1U Z	25V		303 343 3718	CERAMIC	0.1U Z	25V
	303 343 3718	CERAMIC	0.1U Z	25V	C1807	303 454 0514	CERAMIC	0.1U Z	25V
C146	303 454 0514	CERAMIC	0.1U Z	25V		303 343 3718	CERAMIC	0.1U Z	25V
	303 343 3718	CERAMIC	0.1U Z	25V	C1808	303 454 0514	CERAMIC	0.1U Z	25V
C147	303 454 0514	CERAMIC	0.1U Z	25V		303 343 3718	CERAMIC	0.1U Z	25V
	303 343 3718	CERAMIC	0.1U Z	25V	C1809	303 454 0514	CERAMIC	0.1U Z	25V
C148	303 454 0514	CERAMIC	0.1U Z	25V		303 343 3718	CERAMIC	0.1U Z	25V
	303 343 3718	CERAMIC	0.1U Z	25V	C1810	303 454 0514	CERAMIC	0.1U Z	25V
C149	303 454 0514	CERAMIC	0.1U Z	25V		303 343 3718	CERAMIC	0.1U Z	25V
	303 343 3718	CERAMIC	0.1U Z	25V	C1811	303 454 0514	CERAMIC	0.1U Z	25V
C150	303 454 0514	CERAMIC	0.1U Z	25V		303 343 3718	CERAMIC	0.1U Z	25V
	303 343 3718	CERAMIC	0.1U Z	25V	C1812	303 454 0514	CERAMIC	0.1U Z	25V
C151	303 454 0514	CERAMIC	0.1U Z	25V		303 343 3718	CERAMIC	0.1U Z	25V
	303 343 3718	CERAMIC	0.1U Z	25V	C1820	303 454 0514	CERAMIC	0.1U Z	25V
C152	303 454 0514	CERAMIC	0.1U Z	25V		303 343 3718	CERAMIC	0.1U Z	25V
	303 343 3718	CERAMIC	0.1U Z	25V	C1821	303 454 0514	CERAMIC	0.1U Z	25V
C153	303 454 0514	CERAMIC	0.1U Z	25V		303 343 3718	CERAMIC	0.1U Z	25V
	303 343 3718	CERAMIC	0.1U Z	25V	C1822	303 454 0514	CERAMIC	0.1U Z	25V
C154	303 454 0514	CERAMIC	0.1U Z	25V		303 343 3718	CERAMIC	0.1U Z	25V
	303 343 3718	CERAMIC	0.1U Z	25V	C1823	303 454 0514	CERAMIC	0.1U Z	25V
C155	303 454 0514	CERAMIC	0.1U Z	25V		303 343 3718	CERAMIC	0.1U Z	25V
	303 343 3718	CERAMIC	0.1U Z	25V	C1830	303 449 1212	POS-SOLID	47U M	6.3V
C156	303 454 0514	CERAMIC	0.1U Z	25V	C1831	303 454 0514	CERAMIC	0.1U Z	25V
	303 343 3718	CERAMIC	0.1U Z	25V		303 343 3718	CERAMIC	0.1U Z	25V
C157	303 454 0514	CERAMIC	0.1U Z	25V	C1832	303 394 9318	ELECT	220U M	6.3V
	303 343 3718	CERAMIC	0.1U Z	25V		303 387 5112	ELECT	220U M	6.3V
C158	303 454 0514	CERAMIC	0.1U Z	25V	C1833	303 454 0514	CERAMIC	0.1U Z	25V
	303 343 3718	CERAMIC	0.1U Z	25V		303 343 3718	CERAMIC	0.1U Z	25V
C159	303 454 0514	CERAMIC	0.1U Z	25V	C1834	303 454 0514	CERAMIC	0.1U Z	25V
	303 343 3718	CERAMIC	0.1U Z	25V		303 343 3718	CERAMIC	0.1U Z	25V
C160	303 454 0514	CERAMIC	0.1U Z	25V	C1835	303 454 0514	CERAMIC	0.1U Z	25V
	303 343 3718	CERAMIC	0.1U Z	25V		303 343 3718	CERAMIC	0.1U Z	25V
C161	303 454 0514	CERAMIC	0.1U Z	25V	C1836	303 454 0514	CERAMIC	0.1U Z	25V
	303 343 3718	CERAMIC	0.1U Z	25V		303 343 3718	CERAMIC	0.1U Z	25V
C162	303 314 5314	CERAMIC	5P C	50V	C1837	303 453 7118	CERAMIC	12P J	50V
	303 453 6418	CERAMIC	5P J	50V		303 453 9112	CERAMIC	12P J	50V
C163	303 314 5314	CERAMIC	5P C	50V		303 276 2918	CERAMIC	12P J	50V
	303 453 6418	CERAMIC	5P J	50V	C1871	403 455 1012	CERAMIC	1U K	10V
C164	303 454 0514	CERAMIC	0.1U Z	25V		303 433 1112	CERAMIC	1U K	10V
	303 343 3718	CERAMIC	0.1U Z	25V	C2001	303 453 8917	CERAMIC	0.1U K	16V
C165	303 454 0514	CERAMIC	0.1U Z	25V		303 453 8610	CERAMIC	0.1U K	16V
	303 343 3718	CERAMIC	0.1U Z	25V		303 409 3426	CERAMIC	0.1U K	16V
C166	303 454 0514	CERAMIC	0.1U Z	25V	C2002	303 449 1212	POS-SOLID	47U M	6.3V
	303 343 3718	CERAMIC	0.1U Z	25V	C2013	303 454 0514	CERAMIC	0.1U Z	25V
C170	303 454 0514	CERAMIC	0.1U Z	25V		303 343 3718	CERAMIC	0.1U Z	25V
	303 343 3718	CERAMIC	0.1U Z	25V	C2023	303 391 5412	ELECT	22U M	6.3V
C171	303 454 0514	CERAMIC	0.1U Z	25V		303 184 7913	ELECT	22U M	6.3V
	303 343 3718	CERAMIC	0.1U Z	25V	C2033	303 391 5412	ELECT	22U M	6.3V
C172	303 454 0514	CERAMIC	0.1U Z	25V		303 184 7913	ELECT	22U M	6.3V
	303 343 3718	CERAMIC	0.1U Z	25V	C2041	303 323 8818	CERAMIC	2.2U Z	16V
C173	303 454 0514	CERAMIC	0.1U Z	25V	C2051	303 323 8818	CERAMIC	2.2U Z	16V
	303 343 3718	CERAMIC	0.1U Z	25V	C2506	303 398 3817	ELECT	220U M	16V
C174	303 454 0514	CERAMIC	0.1U Z	25V		403 457 1416	ELECT	220U M	16V
	303 343 3718	CERAMIC	0.1U Z	25V	C2507	303 454 0514	CERAMIC	0.1U Z	25V
C175	303 394 1312	ELECT	100U M	6.3V		303 343 3718	CERAMIC	0.1U Z	25V

Electrical Parts List

Key No.	Part No.	Description			Key No.	Part No.	Description		
C2521	303 454 0514	CERAMIC	0.1U Z	25V		303 343 3718	CERAMIC	0.1U Z	25V
	303 343 3718	CERAMIC	0.1U Z	25V	C311	303 454 0514	CERAMIC	0.1U Z	25V
C2522	303 454 0514	CERAMIC	0.1U Z	25V		303 343 3718	CERAMIC	0.1U Z	25V
	303 343 3718	CERAMIC	0.1U Z	25V	C312	303 454 0514	CERAMIC	0.1U Z	25V
C2523	303 454 0514	CERAMIC	0.1U Z	25V		303 343 3718	CERAMIC	0.1U Z	25V
	303 343 3718	CERAMIC	0.1U Z	25V	C313	303 454 0514	CERAMIC	0.1U Z	25V
C2524	403 455 9018	CERAMIC	10U K	16V		303 343 3718	CERAMIC	0.1U Z	25V
	303 379 6714	CERAMIC	10U K	16V	C314	303 454 0514	CERAMIC	0.1U Z	25V
C2526	303 398 3916	ELECT	33U M	16V		303 343 3718	CERAMIC	0.1U Z	25V
	303 194 5312	ELECT	33U M	16V	C316	303 454 0514	CERAMIC	0.1U Z	25V
C2527	303 454 0514	CERAMIC	0.1U Z	25V		303 343 3718	CERAMIC	0.1U Z	25V
	303 343 3718	CERAMIC	0.1U Z	25V	C317	303 454 0514	CERAMIC	0.1U Z	25V
C2531	303 454 0514	CERAMIC	0.1U Z	25V		303 343 3718	CERAMIC	0.1U Z	25V
	303 343 3718	CERAMIC	0.1U Z	25V	C318	303 454 0514	CERAMIC	0.1U Z	25V
C2532	303 454 0514	CERAMIC	0.1U Z	25V		303 343 3718	CERAMIC	0.1U Z	25V
	303 343 3718	CERAMIC	0.1U Z	25V	C319	303 454 0514	CERAMIC	0.1U Z	25V
C2533	403 455 9018	CERAMIC	10U K	16V		303 343 3718	CERAMIC	0.1U Z	25V
	303 379 6714	CERAMIC	10U K	16V	C321	303 454 0514	CERAMIC	0.1U Z	25V
C2534	303 454 0514	CERAMIC	0.1U Z	25V		303 343 3718	CERAMIC	0.1U Z	25V
	303 343 3718	CERAMIC	0.1U Z	25V	C322	303 454 0514	CERAMIC	0.1U Z	25V
C2536	303 398 3916	ELECT	33U M	16V		303 343 3718	CERAMIC	0.1U Z	25V
	303 194 5312	ELECT	33U M	16V	C323	303 454 0514	CERAMIC	0.1U Z	25V
C2537	303 454 0514	CERAMIC	0.1U Z	25V		303 343 3718	CERAMIC	0.1U Z	25V
	303 343 3718	CERAMIC	0.1U Z	25V	C324	303 454 0514	CERAMIC	0.1U Z	25V
C2541	303 454 0514	CERAMIC	0.1U Z	25V		303 343 3718	CERAMIC	0.1U Z	25V
	303 343 3718	CERAMIC	0.1U Z	25V	C326	303 454 0514	CERAMIC	0.1U Z	25V
C2542	303 454 0514	CERAMIC	0.1U Z	25V		303 343 3718	CERAMIC	0.1U Z	25V
	303 343 3718	CERAMIC	0.1U Z	25V	C327	303 454 0514	CERAMIC	0.1U Z	25V
C2543	303 454 0514	CERAMIC	0.1U Z	25V		303 343 3718	CERAMIC	0.1U Z	25V
	303 343 3718	CERAMIC	0.1U Z	25V	C329	403 455 1012	CERAMIC	1U K	10V
C2544	403 455 9018	CERAMIC	10U K	16V		303 433 1112	CERAMIC	1U K	10V
	303 379 6714	CERAMIC	10U K	16V	C331	303 454 0514	CERAMIC	0.1U Z	25V
C2546	303 398 3916	ELECT	33U M	16V		303 343 3718	CERAMIC	0.1U Z	25V
	303 194 5312	ELECT	33U M	16V	C332	303 454 0514	CERAMIC	0.1U Z	25V
C2547	303 454 0514	CERAMIC	0.1U Z	25V		303 343 3718	CERAMIC	0.1U Z	25V
	303 343 3718	CERAMIC	0.1U Z	25V	C336	403 455 1012	CERAMIC	1U K	10V
C2896	303 454 0514	CERAMIC	0.1U Z	25V		303 433 1112	CERAMIC	1U K	10V
	303 343 3718	CERAMIC	0.1U Z	25V	C340	303 347 5510	POS-SOLID	470U M	4V
C2897	303 453 7217	CERAMIC	47P J	50V	C3502	303 453 8917	CERAMIC	0.1U K	16V
	303 454 1610	CERAMIC	47P J	50V		303 453 8610	CERAMIC	0.1U K	16V
	303 305 8812	CERAMIC	47P J	50V		303 409 3426	CERAMIC	0.1U K	16V
C3001	303 323 8818	CERAMIC	2.2U Z	16V	C3503	303 453 8917	CERAMIC	0.1U K	16V
C301	303 454 0514	CERAMIC	0.1U Z	25V		303 453 8610	CERAMIC	0.1U K	16V
	303 343 3718	CERAMIC	0.1U Z	25V		303 409 3426	CERAMIC	0.1U K	16V
C3011	303 323 8818	CERAMIC	2.2U Z	16V	C3506	303 453 8917	CERAMIC	0.1U K	16V
C302	303 454 0514	CERAMIC	0.1U Z	25V		303 453 8610	CERAMIC	0.1U K	16V
	303 343 3718	CERAMIC	0.1U Z	25V		303 409 3426	CERAMIC	0.1U K	16V
C303	303 454 0514	CERAMIC	0.1U Z	25V	C3531	303 454 0514	CERAMIC	0.1U Z	25V
	303 343 3718	CERAMIC	0.1U Z	25V		303 343 3718	CERAMIC	0.1U Z	25V
C304	303 454 0514	CERAMIC	0.1U Z	25V	C3532	303 454 0514	CERAMIC	0.1U Z	25V
	303 343 3718	CERAMIC	0.1U Z	25V		303 343 3718	CERAMIC	0.1U Z	25V
C3051	303 453 6319	CERAMIC	100P J	50V	C3541	403 455 9018	CERAMIC	10U K	16V
	303 294 6110	CERAMIC	100P J	50V		303 379 6714	CERAMIC	10U K	16V
C3052	303 439 8412	CERAMIC	2.2U M	6.3V	C3543	303 394 1312	ELECT	100U M	6.3V
C3053	303 454 0514	CERAMIC	0.1U Z	25V		303 387 4917	ELECT	100U M	6.3V
	303 343 3718	CERAMIC	0.1U Z	25V	C3544	303 454 0514	CERAMIC	0.1U Z	25V
C306	303 454 0514	CERAMIC	0.1U Z	25V		303 343 3718	CERAMIC	0.1U Z	25V
	303 343 3718	CERAMIC	0.1U Z	25V	C3555	303 341 3918	POS-SOLID	100U M	6.3V
C3061	303 453 6319	CERAMIC	100P J	50V	C3581	303 394 1312	ELECT	100U M	6.3V
	303 294 6110	CERAMIC	100P J	50V		303 387 4917	ELECT	100U M	6.3V
C307	303 454 0514	CERAMIC	0.1U Z	25V	C3801	303 439 8412	CERAMIC	2.2U M	6.3V
	303 343 3718	CERAMIC	0.1U Z	25V	C3802	303 439 8412	CERAMIC	2.2U M	6.3V
C308	303 454 0514	CERAMIC	0.1U Z	25V	C3803	303 439 8412	CERAMIC	2.2U M	6.3V
	303 343 3718	CERAMIC	0.1U Z	25V	C3804	303 439 8412	CERAMIC	2.2U M	6.3V
C309	303 454 0514	CERAMIC	0.1U Z	25V	C3806	403 455 1012	CERAMIC	1U K	10V
	303 343 3718	CERAMIC	0.1U Z	25V		303 433 1112	CERAMIC	1U K	10V
C3091	303 454 0514	CERAMIC	0.1U Z	25V	C4001	303 454 0514	CERAMIC	0.1U Z	25V

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Key No.	Part No.	Description			Key No.	Part No.	Description		
	303 343 3718	CERAMIC	0.1U Z	25V		303 453 8610	CERAMIC	0.1U K	16V
C4002	303 454 0514	CERAMIC	0.1U Z	25V		303 409 3426	CERAMIC	0.1U K	16V
	303 343 3718	CERAMIC	0.1U Z	25V	C491	303 453 7613	CERAMIC	0.01U Z	50V
C4003	303 454 0514	CERAMIC	0.1U Z	25V		303 320 1317	CERAMIC	0.01U Z	50V
	303 343 3718	CERAMIC	0.1U Z	25V	C492	303 454 0514	CERAMIC	0.1U Z	25V
C401	303 449 1212	POS-SOLID	47U M	6.3V		303 343 3718	CERAMIC	0.1U Z	25V
C4011	303 454 0514	CERAMIC	0.1U Z	25V	C493	303 394 1312	ELECT	100U M	6.3V
	303 343 3718	CERAMIC	0.1U Z	25V		303 387 4917	ELECT	100U M	6.3V
C4012	303 454 0514	CERAMIC	0.1U Z	25V	C5001	303 453 8917	CERAMIC	0.1U K	16V
	303 343 3718	CERAMIC	0.1U Z	25V		303 453 8610	CERAMIC	0.1U K	16V
C4013	303 454 0514	CERAMIC	0.1U Z	25V		303 409 3426	CERAMIC	0.1U K	16V
	303 343 3718	CERAMIC	0.1U Z	25V	C5002	303 454 0613	CERAMIC	0.01U K	50V
C402	303 449 1212	POS-SOLID	47U M	6.3V		303 441 9810	CERAMIC	0.01U K	50V
C403	303 355 9913	CERAMIC	2.2U K	10V	C5003	303 454 0613	CERAMIC	0.01U K	50V
C404	303 454 0613	CERAMIC	0.01U K	50V		303 441 9810	CERAMIC	0.01U K	50V
	303 441 9810	CERAMIC	0.01U K	50V	C5004	303 453 8917	CERAMIC	0.1U K	16V
C4057	303 449 1212	POS-SOLID	47U M	6.3V		303 453 8610	CERAMIC	0.1U K	16V
C406	303 454 0613	CERAMIC	0.01U K	50V		303 409 3426	CERAMIC	0.1U K	16V
	303 441 9810	CERAMIC	0.01U K	50V	C5006	303 453 8917	CERAMIC	0.1U K	16V
C407	303 454 0613	CERAMIC	0.01U K	50V		303 453 8610	CERAMIC	0.1U K	16V
	303 441 9810	CERAMIC	0.01U K	50V		303 409 3426	CERAMIC	0.1U K	16V
C408	303 454 0613	CERAMIC	0.01U K	50V	C5007	303 454 0613	CERAMIC	0.01U K	50V
	303 441 9810	CERAMIC	0.01U K	50V		303 441 9810	CERAMIC	0.01U K	50V
C409	303 454 0613	CERAMIC	0.01U K	50V	C5008	303 454 0613	CERAMIC	0.01U K	50V
	303 441 9810	CERAMIC	0.01U K	50V		303 441 9810	CERAMIC	0.01U K	50V
C411	303 454 0613	CERAMIC	0.01U K	50V	C5009	303 453 8917	CERAMIC	0.1U K	16V
	303 441 9810	CERAMIC	0.01U K	50V		303 453 8610	CERAMIC	0.1U K	16V
C412	303 454 0613	CERAMIC	0.01U K	50V		303 409 3426	CERAMIC	0.1U K	16V
	303 441 9810	CERAMIC	0.01U K	50V	C501	303 449 1212	POS-SOLID	47U M	6.3V
C413	303 454 0613	CERAMIC	0.01U K	50V	C5011	303 071 8115	CERAMIC	2200P K	50V
	303 441 9810	CERAMIC	0.01U K	50V	C5012	303 453 8917	CERAMIC	0.1U K	16V
C414	303 454 0613	CERAMIC	0.01U K	50V		303 453 8610	CERAMIC	0.1U K	16V
	303 441 9810	CERAMIC	0.01U K	50V		303 409 3426	CERAMIC	0.1U K	16V
C416	303 454 0613	CERAMIC	0.01U K	50V	C5013	403 455 1012	CERAMIC	1U K	10V
	303 441 9810	CERAMIC	0.01U K	50V		303 433 1112	CERAMIC	1U K	10V
C417	303 454 0613	CERAMIC	0.01U K	50V	C5014	403 455 1012	CERAMIC	1U K	10V
	303 441 9810	CERAMIC	0.01U K	50V		303 433 1112	CERAMIC	1U K	10V
C418	303 449 1212	POS-SOLID	47U M	6.3V	C5016	303 071 8115	CERAMIC	2200P K	50V
C419	303 449 1212	POS-SOLID	47U M	6.3V	C5017	303 453 8917	CERAMIC	0.1U K	16V
C421	303 454 0613	CERAMIC	0.01U K	50V		303 453 8610	CERAMIC	0.1U K	16V
	303 441 9810	CERAMIC	0.01U K	50V		303 409 3426	CERAMIC	0.1U K	16V
C422	303 454 0613	CERAMIC	0.01U K	50V	C5018	303 279 4315	CERAMIC	0.33U K	16V
	303 441 9810	CERAMIC	0.01U K	50V	C5019	403 455 1012	CERAMIC	1U K	10V
C423	303 454 0613	CERAMIC	0.01U K	50V		303 433 1112	CERAMIC	1U K	10V
	303 441 9810	CERAMIC	0.01U K	50V	C502	303 454 0514	CERAMIC	0.1U Z	25V
C424	303 454 0613	CERAMIC	0.01U K	50V		303 343 3718	CERAMIC	0.1U Z	25V
	303 441 9810	CERAMIC	0.01U K	50V	C5021	303 454 0514	CERAMIC	0.1U Z	25V
C426	303 454 0613	CERAMIC	0.01U K	50V		303 343 3718	CERAMIC	0.1U Z	25V
	303 441 9810	CERAMIC	0.01U K	50V	C5022	403 455 1012	CERAMIC	1U K	10V
C427	303 454 0613	CERAMIC	0.01U K	50V		303 433 1112	CERAMIC	1U K	10V
	303 441 9810	CERAMIC	0.01U K	50V	C5023	403 455 1012	CERAMIC	1U K	10V
C428	303 454 0613	CERAMIC	0.01U K	50V		303 433 1112	CERAMIC	1U K	10V
	303 441 9810	CERAMIC	0.01U K	50V	C5024	403 455 9018	CERAMIC	10U K	16V
C429	303 454 0613	CERAMIC	0.01U K	50V		303 379 6714	CERAMIC	10U K	16V
	303 441 9810	CERAMIC	0.01U K	50V	C503	303 391 5115	ELECT	100U M	16V
C431	303 454 0613	CERAMIC	0.01U K	50V		303 296 9515	ELECT	100U M	16V
	303 441 9810	CERAMIC	0.01U K	50V	C5031	303 323 8818	CERAMIC	2.2U Z	16V
C432	303 454 0613	CERAMIC	0.01U K	50V	C5032	303 314 5918	CERAMIC	0.47U K	16V
	303 441 9810	CERAMIC	0.01U K	50V	C5033	403 455 1012	CERAMIC	1U K	10V
C441	303 454 0613	CERAMIC	0.01U K	50V		303 433 1112	CERAMIC	1U K	10V
	303 441 9810	CERAMIC	0.01U K	50V	C5037	403 455 1012	CERAMIC	1U K	10V
C442	303 454 0613	CERAMIC	0.01U K	50V		303 433 1112	CERAMIC	1U K	10V
	303 441 9810	CERAMIC	0.01U K	50V	C5038	303 454 0613	CERAMIC	0.01U K	50V
C443	303 454 0613	CERAMIC	0.01U K	50V		303 441 9810	CERAMIC	0.01U K	50V
	303 441 9810	CERAMIC	0.01U K	50V	C5039	303 454 0613	CERAMIC	0.01U K	50V
C4808	303 378 3110	CERAMIC	47U Z	6.3V		303 441 9810	CERAMIC	0.01U K	50V
C4891	303 453 8917	CERAMIC	0.1U K	16V	C504	303 453 8917	CERAMIC	0.1U K	16V

Electrical Parts List

Key No.	Part No.	Description			Key No.	Part No.	Description		
C5041	303 453 8610	CERAMIC	0.1U K	16V	C522	303 453 8917	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 454 0613	CERAMIC	0.01U K	50V		303 409 3426	CERAMIC	0.1U K	16V
C505	303 441 9810	CERAMIC	0.01U K	50V	C5221	403 455 9018	CERAMIC	10U K	16V
	303 391 5115	ELECT	100U M	16V		303 379 6714	CERAMIC	10U K	16V
C506	303 296 9515	ELECT	100U M	16V	C5222	303 454 0514	CERAMIC	0.1U Z	25V
	303 453 8917	CERAMIC	0.1U K	16V		303 343 3718	CERAMIC	0.1U Z	25V
	303 453 8610	CERAMIC	0.1U K	16V	C5223	303 394 9318	ELECT	220U M	6.3V
C5061	303 409 3426	CERAMIC	0.1U K	16V		303 387 5112	ELECT	220U M	6.3V
	303 391 5511	ELECT	10U M	16V	C524	303 453 8511	CERAMIC	1000P K	50V
	303 175 7212	ELECT	10U M	16V		303 454 1214	CERAMIC	1000P K	50V
C5069	303 391 5511	ELECT	10U M	16V		303 276 1317	CERAMIC	1000P K	50V
	303 175 7212	ELECT	10U M	16V	C5241	303 454 0514	CERAMIC	0.1U Z	25V
C508	303 453 8917	CERAMIC	0.1U K	16V		303 343 3718	CERAMIC	0.1U Z	25V
	303 453 8610	CERAMIC	0.1U K	16V	C5301	303 449 1212	POS-SOLID	47U M	6.3V
	303 409 3426	CERAMIC	0.1U K	16V		403 455 1012	CERAMIC	1U K	10V
C5081	403 455 9018	CERAMIC	10U K	16V	C5302	303 433 1112	CERAMIC	1U K	10V
	303 379 6714	CERAMIC	10U K	16V		303 355 9913	CERAMIC	2.2U K	10V
	303 394 1312	ELECT	100U M	6.3V	C5303	303 314 5918	CERAMIC	0.47U K	16V
C5083	303 387 4917	ELECT	100U M	6.3V		303 316 5411	CERAMIC	1U K	10V
	303 454 0514	CERAMIC	0.1U Z	25V	C5306	303 314 5918	CERAMIC	0.47U K	16V
	303 343 3718	CERAMIC	0.1U Z	25V		303 355 9913	CERAMIC	2.2U K	10V
C5086	303 394 1312	ELECT	100U M	6.3V	C5307	403 455 1012	CERAMIC	1U K	10V
	303 387 4917	ELECT	100U M	6.3V		303 433 1112	CERAMIC	1U K	10V
	303 394 9318	ELECT	220U M	6.3V	C5308	303 449 1212	POS-SOLID	47U M	6.3V
C5087	303 387 5112	ELECT	220U M	6.3V		303 453 6319	CERAMIC	100P J	50V
	303 394 9318	ELECT	220U M	6.3V	C5311	303 294 6110	CERAMIC	100P J	50V
	303 387 5112	ELECT	220U M	6.3V		303 323 8818	CERAMIC	2.2U Z	16V
C509	303 453 8917	CERAMIC	0.1U K	16V	C5312	303 449 1212	POS-SOLID	47U M	6.3V
	303 453 8610	CERAMIC	0.1U K	16V		403 455 1012	CERAMIC	1U K	10V
	303 409 3426	CERAMIC	0.1U K	16V	C5313	303 433 1112	CERAMIC	1U K	10V
C511	303 453 8917	CERAMIC	0.1U K	16V		403 455 1012	CERAMIC	1U K	10V
	303 453 8610	CERAMIC	0.1U K	16V	C5315	303 433 1112	CERAMIC	1U K	10V
	303 409 3426	CERAMIC	0.1U K	16V		303 207 0310	CERAMIC	1U Z	16V
C512	303 453 8917	CERAMIC	0.1U K	16V	C5316	403 455 1012	CERAMIC	1U K	10V
	303 453 8610	CERAMIC	0.1U K	16V		303 433 1112	CERAMIC	1U K	10V
	303 409 3426	CERAMIC	0.1U K	16V	C5317	303 454 0514	CERAMIC	0.1U Z	25V
C513	303 453 8917	CERAMIC	0.1U K	16V		303 343 3718	CERAMIC	0.1U Z	25V
	303 453 8610	CERAMIC	0.1U K	16V	C532	303 391 5115	ELECT	100U M	16V
	303 409 3426	CERAMIC	0.1U K	16V		303 296 9515	ELECT	100U M	16V
C514	303 453 8917	CERAMIC	0.1U K	16V		303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V	C533	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V		303 409 3426	CERAMIC	0.1U K	16V
C518	303 453 8917	CERAMIC	0.1U K	16V	C534	303 391 5115	ELECT	100U M	16V
	303 453 8610	CERAMIC	0.1U K	16V		303 296 9515	ELECT	100U M	16V
	303 409 3426	CERAMIC	0.1U K	16V	C535	303 453 8917	CERAMIC	0.1U K	16V
C519	303 453 8917	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V		303 409 3426	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V	C536	303 453 8917	CERAMIC	0.1U K	16V
C5201	303 323 8818	CERAMIC	2.2U Z	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 323 8818	CERAMIC	2.2U Z	16V		303 409 3426	CERAMIC	0.1U K	16V
C5202	303 323 8818	CERAMIC	2.2U Z	16V	C538	303 453 8917	CERAMIC	0.1U K	16V
	303 323 8818	CERAMIC	2.2U Z	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 323 8818	CERAMIC	2.2U Z	16V		303 409 3426	CERAMIC	0.1U K	16V
C5203	303 323 8818	CERAMIC	2.2U Z	16V	C539	303 453 8917	CERAMIC	0.1U K	16V
	303 323 8818	CERAMIC	2.2U Z	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 323 8818	CERAMIC	2.2U Z	16V		303 409 3426	CERAMIC	0.1U K	16V
C5204	403 455 1012	CERAMIC	1U K	10V	C541	303 453 8917	CERAMIC	0.1U K	16V
	303 433 1112	CERAMIC	1U K	10V		303 453 8610	CERAMIC	0.1U K	16V
	303 314 5918	CERAMIC	0.47U K	16V		303 409 3426	CERAMIC	0.1U K	16V
C5206	303 323 8818	CERAMIC	2.2U Z	16V	C542	303 453 8917	CERAMIC	0.1U K	16V
	303 323 8818	CERAMIC	2.2U Z	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 323 8818	CERAMIC	2.2U Z	16V		303 409 3426	CERAMIC	0.1U K	16V
C5207	303 453 8917	CERAMIC	0.1U K	16V	C543	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V		303 409 3426	CERAMIC	0.1U K	16V
C5208	303 453 8917	CERAMIC	0.1U K	16V	C544	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V		303 409 3426	CERAMIC	0.1U K	16V
C5209	303 453 8917	CERAMIC	0.1U K	16V	C548	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V		303 409 3426	CERAMIC	0.1U K	16V
C521	303 453 8917	CERAMIC	0.1U K	16V					
	303 453 8610	CERAMIC	0.1U K	16V					
	303 409 3426	CERAMIC	0.1U K	16V					
C5212	303 453 8917	CERAMIC	0.1U K	16V					
	303 453 8610	CERAMIC	0.1U K	16V					
	303 409 3426	CERAMIC	0.1U K	16V					
C5214	303 454 0613	CERAMIC	0.01U K	50V					
	303 441 9810	CERAMIC	0.01U K	50V					
	303 207 0310	CERAMIC	1U Z	16V					

Electrical Parts List

Key No.	Part No.	Description			Key No.	Part No.	Description		
C549	303 453 8610	CERAMIC	0.1U K	16V	C5655	303 454 0514	CERAMIC	0.1U Z	25V
	303 409 3426	CERAMIC	0.1U K	16V	C5656	303 343 3718	CERAMIC	0.1U Z	25V
	303 453 8917	CERAMIC	0.1U K	16V		303 453 8917	CERAMIC	0.1U K	16V
C551	303 453 8610	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V	C5657	303 409 3426	CERAMIC	0.1U K	16V
	303 453 8917	CERAMIC	0.1U K	16V		403 458 3112	CERAMIC	0.22U K	16V
C552	303 453 8610	CERAMIC	0.1U K	16V		303 453 9310	CERAMIC	0.22U Z	16V
	303 409 3426	CERAMIC	0.1U K	16V	C5658	303 442 0212	CERAMIC	0.22U Z	16V
	303 453 8917	CERAMIC	0.1U K	16V		303 454 1818	CERAMIC	2200P K	50V
C554	303 453 8610	CERAMIC	0.1U K	16V	C5659	303 283 5711	CERAMIC	2200P K	50V
	303 409 3426	CERAMIC	0.1U K	16V		303 454 1917	CERAMIC	4700P K	50V
	303 453 8511	CERAMIC	1000P K	50V		303 379 7315	CERAMIC	4700P K	50V
C5601	303 454 1214	CERAMIC	1000P K	50V	C566	303 453 8917	CERAMIC	0.1U K	16V
	303 276 1317	CERAMIC	1000P K	50V		303 453 8610	CERAMIC	0.1U K	16V
	303 397 5713	ELECT	100U M	10V		303 409 3426	CERAMIC	0.1U K	16V
C5602	303 387 5617	ELECT	100U M	10V	C5660	303 454 1917	CERAMIC	4700P K	50V
	303 454 0514	CERAMIC	0.1U Z	25V		303 379 7315	CERAMIC	4700P K	50V
	303 343 3718	CERAMIC	0.1U Z	25V	C5661	303 394 9318	ELECT	220U M	6.3V
C5603	303 394 9318	ELECT	220U M	6.3V		303 387 5112	ELECT	220U M	6.3V
	303 387 5112	ELECT	220U M	6.3V	C5666	303 454 1016	CERAMIC	8200P K	50V
C5604	303 454 0514	CERAMIC	0.1U Z	25V		303 306 6510	CERAMIC	8200P K	50V
	303 343 3718	CERAMIC	0.1U Z	25V	C5667	303 347 5510	POS-SOLID	470U M	4V
	303 398 5415	ELECT	47U M	25V	C5669	303 454 0514	CERAMIC	0.1U Z	25V
C5606	303 387 7314	ELECT	47U M	25V		303 343 3718	CERAMIC	0.1U Z	25V
	303 398 5415	ELECT	47U M	25V	C5671	303 394 9318	ELECT	220U M	6.3V
	303 387 7314	ELECT	47U M	25V		303 387 5112	ELECT	220U M	6.3V
C5608	303 394 9318	ELECT	220U M	6.3V	C5676	303 454 1016	CERAMIC	8200P K	50V
	303 387 5112	ELECT	220U M	6.3V		303 306 6510	CERAMIC	8200P K	50V
C5609	303 398 5415	ELECT	47U M	25V	C568	303 453 8917	CERAMIC	0.1U K	16V
	303 387 7314	ELECT	47U M	25V		303 453 8610	CERAMIC	0.1U K	16V
	303 449 1212	POS-SOLID	47U M	6.3V		303 409 3426	CERAMIC	0.1U K	16V
C5611	303 398 5415	ELECT	47U M	25V	C5680	403 457 2512	CERAMIC	0.47U K	10V
	303 387 7314	ELECT	47U M	25V		303 376 6311	CERAMIC	0.47U K	10V
	303 398 1813	ELECT	220U M	6.3V	C5681	303 347 5510	POS-SOLID	470U M	4V
C5612	303 224 3417	ELECT	220U M	6.3V		303 454 0514	CERAMIC	0.1U Z	25V
	303 398 5415	ELECT	47U M	25V		303 343 3718	CERAMIC	0.1U Z	25V
C5613	303 387 7314	ELECT	47U M	25V	C5684	303 454 0514	CERAMIC	0.1U Z	25V
	303 398 5415	ELECT	47U M	25V		303 343 3718	CERAMIC	0.1U Z	25V
	303 387 7314	ELECT	47U M	25V	C5687	303 394 1312	ELECT	100U M	6.3V
C5614	303 398 5415	ELECT	47U M	25V		303 387 4917	ELECT	100U M	6.3V
	303 387 7314	ELECT	47U M	25V	C569	303 453 8917	CERAMIC	0.1U K	16V
C562	303 454 0514	CERAMIC	0.1U Z	25V		303 453 8610	CERAMIC	0.1U K	16V
	303 343 3718	CERAMIC	0.1U Z	25V		303 409 3426	CERAMIC	0.1U K	16V
C563	303 391 5115	ELECT	100U M	16V	C571	303 453 8917	CERAMIC	0.1U K	16V
	303 296 9515	ELECT	100U M	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 449 1212	POS-SOLID	47U M	6.3V		303 409 3426	CERAMIC	0.1U K	16V
C5632	303 347 5510	POS-SOLID	470U M	4V	C572	303 453 8917	CERAMIC	0.1U K	16V
C5634	303 394 1312	ELECT	100U M	6.3V		303 453 8610	CERAMIC	0.1U K	16V
	303 387 4917	ELECT	100U M	6.3V		303 409 3426	CERAMIC	0.1U K	16V
C5635	303 454 0514	CERAMIC	0.1U Z	25V	C573	303 453 8917	CERAMIC	0.1U K	16V
	303 343 3718	CERAMIC	0.1U Z	25V		303 453 8610	CERAMIC	0.1U K	16V
	303 453 8917	CERAMIC	0.1U K	16V		303 409 3426	CERAMIC	0.1U K	16V
C564	303 453 8610	CERAMIC	0.1U K	16V	C574	303 453 8917	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 374 8416	OS-SOLID	39U M	16V		303 409 3426	CERAMIC	0.1U K	16V
C5642	303 454 0514	CERAMIC	0.1U Z	25V	C578	303 453 8917	CERAMIC	0.1U K	16V
	303 343 3718	CERAMIC	0.1U Z	25V		303 453 8610	CERAMIC	0.1U K	16V
	303 391 5115	ELECT	100U M	16V		303 409 3426	CERAMIC	0.1U K	16V
C5643	303 296 9515	ELECT	100U M	16V	C579	303 453 8917	CERAMIC	0.1U K	16V
	303 391 5115	ELECT	100U M	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 296 9515	ELECT	100U M	16V		303 409 3426	CERAMIC	0.1U K	16V
C5651	303 453 6913	CERAMIC	330P J	50V	C581	303 453 8917	CERAMIC	0.1U K	16V
	303 305 4715	CERAMIC	330P J	50V		303 453 8610	CERAMIC	0.1U K	16V
	303 454 1016	CERAMIC	8200P K	50V		303 409 3426	CERAMIC	0.1U K	16V
C5652	303 306 6510	CERAMIC	8200P K	50V	C582	303 453 8917	CERAMIC	0.1U K	16V
	403 457 2512	CERAMIC	0.47U K	10V		303 453 8610	CERAMIC	0.1U K	16V
	303 376 6311	CERAMIC	0.47U K	10V		303 409 3426	CERAMIC	0.1U K	16V
C5654	303 454 0514	CERAMIC	0.1U Z	25V					
	303 343 3718	CERAMIC	0.1U Z	25V					

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Key No.	Part No.	Description			Key No.	Part No.	Description		
C584	303 453 8511	CERAMIC	1000P K	50V	C8266	303 454 0514	CERAMIC	0.1U Z	25V
	303 454 1214	CERAMIC	1000P K	50V		303 343 3718	CERAMIC	0.1U Z	25V
	303 276 1317	CERAMIC	1000P K	50V	C8267	303 454 0514	CERAMIC	0.1U Z	25V
C7811	303 314 6212	CERAMIC	2.2U K	16V		303 343 3718	CERAMIC	0.1U Z	25V
C7813	303 381 5316	ELECT	100U M	16V	C8268	303 454 0514	CERAMIC	0.1U Z	25V
	303 369 3211	ELECT	100U M	16V		303 343 3718	CERAMIC	0.1U Z	25V
C7814	303 381 5316	ELECT	100U M	16V	C8269	303 454 0514	CERAMIC	0.1U Z	25V
	303 369 3211	ELECT	100U M	16V		303 343 3718	CERAMIC	0.1U Z	25V
C7817	303 454 0514	CERAMIC	0.1U Z	25V	C8271	303 454 0514	CERAMIC	0.1U Z	25V
	303 343 3718	CERAMIC	0.1U Z	25V		303 343 3718	CERAMIC	0.1U Z	25V
C7818	303 454 1917	CERAMIC	4700P K	50V	C8272	303 454 0514	CERAMIC	0.1U Z	25V
	303 379 7315	CERAMIC	4700P K	50V		303 343 3718	CERAMIC	0.1U Z	25V
C7822	301 229 7218	MT-GLAZE	18K JA	1/16W	C8273	303 454 0514	CERAMIC	0.1U Z	25V
C7861	303 314 6212	CERAMIC	2.2U K	16V		303 343 3718	CERAMIC	0.1U Z	25V
C7863	303 381 5316	ELECT	100U M	16V	C8274	303 454 0514	CERAMIC	0.1U Z	25V
	303 369 3211	ELECT	100U M	16V		303 343 3718	CERAMIC	0.1U Z	25V
C7864	303 381 5316	ELECT	100U M	16V	C8291	303 449 1212	POS-SOLID	47U M	6.3V
	303 369 3211	ELECT	100U M	16V	C8292	303 454 0514	CERAMIC	0.1U Z	25V
C7867	303 454 0514	CERAMIC	0.1U Z	25V		303 343 3718	CERAMIC	0.1U Z	25V
	303 343 3718	CERAMIC	0.1U Z	25V	C8293	303 394 9318	ELECT	220U M	6.3V
C7868	303 454 1917	CERAMIC	4700P K	50V		303 387 5112	ELECT	220U M	6.3V
	303 379 7315	CERAMIC	4700P K	50V	C8294	303 454 0514	CERAMIC	0.1U Z	25V
C7871	303 398 5415	ELECT	47U M	25V		303 343 3718	CERAMIC	0.1U Z	25V
	303 387 7314	ELECT	47U M	25V	C841	403 455 1012	CERAMIC	1U K	10V
C7872	301 229 7218	MT-GLAZE	18K JA	1/16W		303 433 1112	CERAMIC	1U K	10V
C7873	303 398 5415	ELECT	47U M	25V	C842	403 455 1012	CERAMIC	1U K	10V
	303 387 7314	ELECT	47U M	25V		303 433 1112	CERAMIC	1U K	10V
C801	303 454 0514	CERAMIC	0.1U Z	25V	C843	303 449 1212	POS-SOLID	47U M	6.3V
	303 343 3718	CERAMIC	0.1U Z	25V	C846	303 454 0514	CERAMIC	0.1U Z	25V
C8203	303 439 8412	CERAMIC	2.2U M	6.3V		303 343 3718	CERAMIC	0.1U Z	25V
C8204	303 453 7217	CERAMIC	47P J	50V	C847	303 454 0613	CERAMIC	0.01U K	50V
	303 454 1610	CERAMIC	47P J	50V		303 441 9810	CERAMIC	0.01U K	50V
	303 305 8812	CERAMIC	47P J	50V	C848	303 454 0613	CERAMIC	0.01U K	50V
C8206	303 398 3817	ELECT	220U M	16V		303 441 9810	CERAMIC	0.01U K	50V
	403 457 1416	ELECT	220U M	16V	C849	303 454 0613	CERAMIC	0.01U K	50V
C8213	303 439 8412	CERAMIC	2.2U M	6.3V		303 441 9810	CERAMIC	0.01U K	50V
C8214	303 453 7217	CERAMIC	47P J	50V	C851	303 453 8511	CERAMIC	1000P K	50V
	303 454 1610	CERAMIC	47P J	50V		303 454 1214	CERAMIC	1000P K	50V
	303 305 8812	CERAMIC	47P J	50V		303 276 1317	CERAMIC	1000P K	50V
C8216	303 398 3817	ELECT	220U M	16V	C852	403 455 1012	CERAMIC	1U K	10V
	403 457 1416	ELECT	220U M	16V		303 433 1112	CERAMIC	1U K	10V
C8223	303 439 8412	CERAMIC	2.2U M	6.3V	C8811	303 453 7019	CERAMIC	33P J	50V
C8224	303 453 7217	CERAMIC	47P J	50V		303 453 9617	CERAMIC	33P J	50V
	303 454 1610	CERAMIC	47P J	50V		303 276 3113	CERAMIC	33P J	50V
	303 305 8812	CERAMIC	47P J	50V	C8812	303 453 7019	CERAMIC	33P J	50V
C8226	303 398 3817	ELECT	220U M	16V		303 453 9617	CERAMIC	33P J	50V
	403 457 1416	ELECT	220U M	16V		303 276 3113	CERAMIC	33P J	50V
C8251	303 449 1212	POS-SOLID	47U M	6.3V	C8813	303 454 0514	CERAMIC	0.1U Z	25V
C8252	303 454 0514	CERAMIC	0.1U Z	25V		303 343 3718	CERAMIC	0.1U Z	25V
	303 343 3718	CERAMIC	0.1U Z	25V	C8821	303 453 7019	CERAMIC	33P J	50V
C8253	303 454 0514	CERAMIC	0.1U Z	25V		303 453 9617	CERAMIC	33P J	50V
	303 343 3718	CERAMIC	0.1U Z	25V		303 276 3113	CERAMIC	33P J	50V
C8254	303 454 0514	CERAMIC	0.1U Z	25V	C8822	303 453 7019	CERAMIC	33P J	50V
	303 343 3718	CERAMIC	0.1U Z	25V		303 453 9617	CERAMIC	33P J	50V
C8256	303 454 1115	CERAMIC	0.082U K	16V		303 276 3113	CERAMIC	33P J	50V
	303 442 0113	CERAMIC	0.082U K	16V	C8823	303 454 0514	CERAMIC	0.1U Z	25V
C8257	303 454 0118	CERAMIC	6800P K	50V		303 343 3718	CERAMIC	0.1U Z	25V
	303 441 9919	CERAMIC	6800P K	50V	C8831	303 453 7019	CERAMIC	33P J	50V
C8259	303 454 0514	CERAMIC	0.1U Z	25V		303 453 9617	CERAMIC	33P J	50V
	303 343 3718	CERAMIC	0.1U Z	25V		303 276 3113	CERAMIC	33P J	50V
C8261	303 454 0514	CERAMIC	0.1U Z	25V	C8832	303 453 7019	CERAMIC	33P J	50V
	303 343 3718	CERAMIC	0.1U Z	25V		303 453 9617	CERAMIC	33P J	50V
C8262	303 449 1212	POS-SOLID	47U M	6.3V		303 276 3113	CERAMIC	33P J	50V
C8263	303 454 0514	CERAMIC	0.1U Z	25V	C8833	303 454 0514	CERAMIC	0.1U Z	25V
	303 343 3718	CERAMIC	0.1U Z	25V		303 343 3718	CERAMIC	0.1U Z	25V
C8264	303 454 0514	CERAMIC	0.1U Z	25V	C891	303 454 0514	CERAMIC	0.1U Z	25V
	303 343 3718	CERAMIC	0.1U Z	25V		303 343 3718	CERAMIC	0.1U Z	25V

Electrical Parts List

Key No.	Part No.	Description			Key No.	Part No.	Description		
C9882	303 454 0514	CERAMIC	0.1U Z	25V	R1442	301 225 8110	MT-GLAZE	10 JA	1/16W
	303 343 3718	CERAMIC	0.1U Z	25V	R1443	301 224 9712	MT-GLAZE	22 JA	1/16W
RESISTOR					R1444	301 224 9712	MT-GLAZE	22 JA	1/16W
R1001	301 260 4115	MT-GLAZE	75 JA	1/3W	R1447	301 225 8110	MT-GLAZE	10 JA	1/16W
R1002	301 224 8814	MT-GLAZE	100 JA	1/16W	R1453	301 225 8110	MT-GLAZE	10 JA	1/16W
R101	301 225 8110	MT-GLAZE	10 JA	1/16W	R1454	301 225 8110	MT-GLAZE	10 JA	1/16W
R1011	301 260 4115	MT-GLAZE	75 JA	1/3W	R1456	301 225 8110	MT-GLAZE	10 JA	1/16W
R1012	301 224 8814	MT-GLAZE	100 JA	1/16W	R1462	301 225 8110	MT-GLAZE	10 JA	1/16W
R1021	301 260 4115	MT-GLAZE	75 JA	1/3W	R1463	301 225 0312	MT-GLAZE	33 JA	1/16W
R1022	301 224 8814	MT-GLAZE	100 JA	1/16W	R1464	301 225 8110	MT-GLAZE	10 JA	1/16W
R1031	301 225 1418	MT-GLAZE	47K JA	1/16W	R1466	301 224 9712	MT-GLAZE	22 JA	1/16W
R1034	301 224 9316	MT-GLAZE	1K JA	1/16W	R1467	301 224 9712	MT-GLAZE	22 JA	1/16W
R1037	301 224 8814	MT-GLAZE	100 JA	1/16W	R1468	301 224 8814	MT-GLAZE	100 JA	1/16W
R1038	301 224 8814	MT-GLAZE	100 JA	1/16W	R1512	301 224 9316	MT-GLAZE	1K JA	1/16W
R1041	301 225 1418	MT-GLAZE	47K JA	1/16W	R1542	301 224 9316	MT-GLAZE	1K JA	1/16W
R1048	301 224 8814	MT-GLAZE	100 JA	1/16W	R1572	301 224 9316	MT-GLAZE	1K JA	1/16W
R1051	301 260 4214	MT-GLAZE	82 JA	1/3W	R161	301 276 4710	MT-GLAZE	0.000 ZA	1/3W
R1052	301 263 7420	MT-GLAZE	75 JA	1/16W	R1805	301 224 9019	MT-GLAZE	10K JA	1/16W
R1053	301 225 7915	MT-GLAZE	220 JA	1/16W	R1806	301 224 9019	MT-GLAZE	10K JA	1/16W
R1054	301 224 9316	MT-GLAZE	1K JA	1/16W	R1807	301 224 9019	MT-GLAZE	10K JA	1/16W
R1056	301 224 8814	MT-GLAZE	100 JA	1/16W	R1808	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1061	301 260 4214	MT-GLAZE	82 JA	1/3W	R1810	301 224 9019	MT-GLAZE	10K JA	1/16W
R1062	301 263 7420	MT-GLAZE	75 JA	1/16W	R1811	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R1063	301 225 7915	MT-GLAZE	220 JA	1/16W	R1812	301 224 9415	MT-GLAZE	1M JA	1/16W
R1064	301 224 9316	MT-GLAZE	1K JA	1/16W	R1813	301 237 2915	MT-GLAZE	51 JA	1/16W
R1066	301 224 8814	MT-GLAZE	100 JA	1/16W	R1814	301 224 9019	MT-GLAZE	10K JA	1/16W
R1071	301 260 4214	MT-GLAZE	82 JA	1/3W	R1815	301 224 9019	MT-GLAZE	10K JA	1/16W
R1072	301 263 7420	MT-GLAZE	75 JA	1/16W	R1819	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R1073	301 225 7915	MT-GLAZE	220 JA	1/16W	R1828	301 224 9019	MT-GLAZE	10K JA	1/16W
R1074	301 224 9316	MT-GLAZE	1K JA	1/16W	R1830	301 224 9019	MT-GLAZE	10K JA	1/16W
R1076	301 224 8814	MT-GLAZE	100 JA	1/16W	R1832	301 224 9019	MT-GLAZE	10K JA	1/16W
R1081	301 225 1418	MT-GLAZE	47K JA	1/16W	R1834	301 224 9019	MT-GLAZE	10K JA	1/16W
R1082	301 224 8814	MT-GLAZE	100 JA	1/16W	R1838	301 225 3818	MT-GLAZE	1.5K JA	1/16W
R1084	301 224 9316	MT-GLAZE	1K JA	1/16W	R1841	301 224 9217	MT-GLAZE	15K JA	1/16W
R1091	301 225 1418	MT-GLAZE	47K JA	1/16W	R1842	301 224 9019	MT-GLAZE	10K JA	1/16W
R1092	301 224 8814	MT-GLAZE	100 JA	1/16W	R1848	301 225 1111	MT-GLAZE	27 JA	1/16W
R1309	301 225 1210	MT-GLAZE	4.7K JA	1/16W	R1849	301 225 1111	MT-GLAZE	27 JA	1/16W
R131	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R1851	301 224 9019	MT-GLAZE	10K JA	1/16W
R1311	301 225 1210	MT-GLAZE	4.7K JA	1/16W	R1854	301 224 9019	MT-GLAZE	10K JA	1/16W
R1321	301 224 9316	MT-GLAZE	1K JA	1/16W	R1855	301 224 9019	MT-GLAZE	10K JA	1/16W
R1322	301 224 9316	MT-GLAZE	1K JA	1/16W	R1860	301 035 4111	MT-GLAZE	0.000 ZA	1/8W
R1331	301 224 9415	MT-GLAZE	1M JA	1/16W	R1861	301 224 9019	MT-GLAZE	10K JA	1/16W
R137	945 049 0249	IMPEDANCE,120 OHM P			R1862	301 224 9019	MT-GLAZE	10K JA	1/16W
R1378	301 225 1210	MT-GLAZE	4.7K JA	1/16W	R1863	301 224 9019	MT-GLAZE	10K JA	1/16W
R1379	301 225 1210	MT-GLAZE	4.7K JA	1/16W	R1864	301 224 9019	MT-GLAZE	10K JA	1/16W
R138	301 225 8110	MT-GLAZE	10 JA	1/16W	R1866	301 224 9019	MT-GLAZE	10K JA	1/16W
R1386	301 225 1210	MT-GLAZE	4.7K JA	1/16W	R1867	301 224 9019	MT-GLAZE	10K JA	1/16W
R1387	301 225 1210	MT-GLAZE	4.7K JA	1/16W	R1871	301 224 9019	MT-GLAZE	10K JA	1/16W
R139	301 225 8110	MT-GLAZE	10 JA	1/16W	R1880	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1401	301 225 8110	MT-GLAZE	10 JA	1/16W	R1881	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1402	301 225 8110	MT-GLAZE	10 JA	1/16W	R1886	301 224 8814	MT-GLAZE	100 JA	1/16W
R1403	301 225 8110	MT-GLAZE	10 JA	1/16W	R1888	301 224 8814	MT-GLAZE	100 JA	1/16W
R1409	301 225 8110	MT-GLAZE	10 JA	1/16W	R1891	301 224 9019	MT-GLAZE	10K JA	1/16W
R1411	301 225 8110	MT-GLAZE	10 JA	1/16W	R1892	301 259 7823	MT-GLAZE	20K JA	1/16W
R1412	301 225 8110	MT-GLAZE	10 JA	1/16W	R1893	301 224 9019	MT-GLAZE	10K JA	1/16W
R1413	301 225 8110	MT-GLAZE	10 JA	1/16W	R2002	301 224 8814	MT-GLAZE	100 JA	1/16W
R1419	301 225 0312	MT-GLAZE	33 JA	1/16W	R2003	301 224 9019	MT-GLAZE	10K JA	1/16W
R1421	301 225 8110	MT-GLAZE	10 JA	1/16W	R2004	301 224 9217	MT-GLAZE	15K JA	1/16W
R1422	301 224 9712	MT-GLAZE	22 JA	1/16W	R2006	301 035 4319	MT-GLAZE	10 JA	1/8W
R1423	301 224 9712	MT-GLAZE	22 JA	1/16W	R2012	301 278 0116	MT-GLAZE	62 JA	1/3W
R1424	301 225 8110	MT-GLAZE	10 JA	1/16W	R2013	301 225 1418	MT-GLAZE	47K JA	1/16W
R143	301 224 9019	MT-GLAZE	10K JA	1/16W	R2016	301 224 9316	MT-GLAZE	1K JA	1/16W
R1431	301 225 8110	MT-GLAZE	10 JA	1/16W	R2018	301 225 1418	MT-GLAZE	47K JA	1/16W
R1432	301 225 8110	MT-GLAZE	10 JA	1/16W	R2019	301 227 2413	MT-GLAZE	15 JA	1/16W
R1438	301 225 0312	MT-GLAZE	33 JA	1/16W	R2022	301 278 0116	MT-GLAZE	62 JA	1/3W
R1439	301 225 8110	MT-GLAZE	10 JA	1/16W	R2023	301 225 1418	MT-GLAZE	47K JA	1/16W
R1441	301 225 8110	MT-GLAZE	10 JA	1/16W	R2026	301 224 9316	MT-GLAZE	1K JA	1/16W

Electrical Parts List

Key No.	Part No.	Description		Key No.	Part No.	Description	
R2028	301 225 1418	MT-GLAZE	47K JA 1/16W	R3623	301 224 9019	MT-GLAZE	10K JA 1/16W
R2029	301 227 2413	MT-GLAZE	15 JA 1/16W	R3624	301 224 9019	MT-GLAZE	10K JA 1/16W
R2032	301 278 0116	MT-GLAZE	62 JA 1/3W	R3626	301 224 9019	MT-GLAZE	10K JA 1/16W
R2033	301 225 1418	MT-GLAZE	47K JA 1/16W	R3627	301 224 9019	MT-GLAZE	10K JA 1/16W
R2034	301 234 9917	MT-GLAZE	6.8K JA 1/16W	R363	301 224 9712	MT-GLAZE	22 JA 1/16W
R2036	301 224 9316	MT-GLAZE	1K JA 1/16W	R364	301 224 9712	MT-GLAZE	22 JA 1/16W
R2038	301 225 1418	MT-GLAZE	47K JA 1/16W	R365	301 224 9712	MT-GLAZE	22 JA 1/16W
R2039	301 227 2413	MT-GLAZE	15 JA 1/16W	R366	301 224 9712	MT-GLAZE	22 JA 1/16W
R2041	301 224 8913	MT-GLAZE	100K JA 1/16W	R370	301 224 9019	MT-GLAZE	10K JA 1/16W
R2042	301 225 1418	MT-GLAZE	47K JA 1/16W	R371	301 224 9712	MT-GLAZE	22 JA 1/16W
R2051	301 224 8913	MT-GLAZE	100K JA 1/16W	R372	301 224 9712	MT-GLAZE	22 JA 1/16W
R2052	301 225 1418	MT-GLAZE	47K JA 1/16W	R376	301 224 9712	MT-GLAZE	22 JA 1/16W
R2501	301 225 3818	MT-GLAZE	1.5K JA 1/16W	R3801	301 225 8110	MT-GLAZE	10 JA 1/16W
R2502	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R3802	301 225 8110	MT-GLAZE	10 JA 1/16W
R2521	301 225 1418	MT-GLAZE	47K JA 1/16W	R3803	301 224 8814	MT-GLAZE	100 JA 1/16W
R2523	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R3804	301 224 8814	MT-GLAZE	100 JA 1/16W
R2531	301 225 1418	MT-GLAZE	47K JA 1/16W	R381	301 224 9019	MT-GLAZE	10K JA 1/16W
R2533	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R382	301 224 9019	MT-GLAZE	10K JA 1/16W
R2541	301 225 1418	MT-GLAZE	47K JA 1/16W	R383	301 224 9019	MT-GLAZE	10K JA 1/16W
R2543	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R384	301 224 9019	MT-GLAZE	10K JA 1/16W
R2896	301 224 9712	MT-GLAZE	22 JA 1/16W	R386	301 224 9019	MT-GLAZE	10K JA 1/16W
R2897	301 224 9712	MT-GLAZE	22 JA 1/16W	R389	301 224 9019	MT-GLAZE	10K JA 1/16W
R2898	301 224 8814	MT-GLAZE	100 JA 1/16W	R397	301 225 8516	MT-GLAZE	1.8K JA 1/16W
R300	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R4001	301 224 9514	MT-GLAZE	2.2K JA 1/16W
R3001	301 224 8913	MT-GLAZE	100K JA 1/16W	R4002	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R3003	301 225 1418	MT-GLAZE	47K JA 1/16W	R401	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R301	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R4011	301 224 9316	MT-GLAZE	1K JA 1/16W
R3011	301 224 8913	MT-GLAZE	100K JA 1/16W	R4013	301 224 9316	MT-GLAZE	1K JA 1/16W
R3013	301 225 1418	MT-GLAZE	47K JA 1/16W	R4014	301 224 9514	MT-GLAZE	2.2K JA 1/16W
R3051	301 224 8913	MT-GLAZE	100K JA 1/16W	R4016	301 224 9514	MT-GLAZE	2.2K JA 1/16W
R3052	301 224 8814	MT-GLAZE	100 JA 1/16W	R4017	301 224 9514	MT-GLAZE	2.2K JA 1/16W
R3053	301 224 8913	MT-GLAZE	100K JA 1/16W	R402	301 224 9316	MT-GLAZE	1K JA 1/16W
R3054	301 224 8913	MT-GLAZE	100K JA 1/16W	R4023	301 224 9019	MT-GLAZE	10K JA 1/16W
R3056	301 224 9415	MT-GLAZE	1M JA 1/16W	R403	301 224 8814	MT-GLAZE	100 JA 1/16W
R3057	301 224 9910	MT-GLAZE	22K JA 1/16W	R4032	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R3061	301 224 8913	MT-GLAZE	100K JA 1/16W	R404	301 224 8814	MT-GLAZE	100 JA 1/16W
R3062	301 224 8814	MT-GLAZE	100 JA 1/16W	R406	301 224 8814	MT-GLAZE	100 JA 1/16W
R3073	301 225 8110	MT-GLAZE	10 JA 1/16W	R407	301 224 8814	MT-GLAZE	100 JA 1/16W
R308	301 224 9019	MT-GLAZE	10K JA 1/16W	R4071	301 224 8814	MT-GLAZE	100 JA 1/16W
R3091	301 224 8814	MT-GLAZE	100 JA 1/16W	R4073	301 224 9316	MT-GLAZE	1K JA 1/16W
R310	301 224 9019	MT-GLAZE	10K JA 1/16W	R419	301 224 8814	MT-GLAZE	100 JA 1/16W
R312	301 224 9019	MT-GLAZE	10K JA 1/16W	R421	301 224 8814	MT-GLAZE	100 JA 1/16W
R314	301 224 9019	MT-GLAZE	10K JA 1/16W	R422	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R323	301 225 8011	MT-GLAZE	330 JA 1/16W	R426	301 259 7823	MT-GLAZE	20K JA 1/16W
R327	301 224 9019	MT-GLAZE	10K JA 1/16W	R427	301 263 7420	MT-GLAZE	75 JA 1/16W
R3502	301 235 0012	MT-GLAZE	7.5K JA 1/16W	R428	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R3503	301 235 0012	MT-GLAZE	7.5K JA 1/16W	R429	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R3504	301 225 1517	MT-GLAZE	3.9K JA 1/16W	R4834	301 224 9019	MT-GLAZE	10K JA 1/16W
R3506	301 224 9019	MT-GLAZE	10K JA 1/16W	R4837	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R351	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R4861	301 037 5017	MT-GLAZE	0.000 ZA 1/10W
R353	301 224 9019	MT-GLAZE	10K JA 1/16W	R4862	301 038 5016	MT-GLAZE	390 JA 1/10W
R3531	301 224 8814	MT-GLAZE	100 JA 1/16W	R4863	301 225 1616	MT-GLAZE	390 JA 1/16W
R3532	301 224 8814	MT-GLAZE	100 JA 1/16W	R5001	301 276 4314	MT-GLAZE	4.7 JA 1/3W
R356	301 224 9019	MT-GLAZE	10K JA 1/16W	R5002	301 224 9118	MT-GLAZE	150 JA 1/16W
R358	301 224 9019	MT-GLAZE	10K JA 1/16W	R5003	301 224 9118	MT-GLAZE	150 JA 1/16W
R3581	301 224 9316	MT-GLAZE	1K JA 1/16W	R501	301 224 8814	MT-GLAZE	100 JA 1/16W
R3582	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R502	301 224 8814	MT-GLAZE	100 JA 1/16W
R3583	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R503	301 224 8814	MT-GLAZE	100 JA 1/16W
R3584	301 225 3818	MT-GLAZE	1.5K JA 1/16W	R5031	301 225 1319	MT-GLAZE	470 JA 1/16W
R3601	301 224 9316	MT-GLAZE	1K JA 1/16W	R5032	301 225 1319	MT-GLAZE	470 JA 1/16W
R3602	301 225 0619	MT-GLAZE	5.6K JA 1/16W	R5033	301 235 1415	MT-GLAZE	1.2K JA 1/16W
R3605	301 225 1111	MT-GLAZE	27 JA 1/16W	R5034	301 224 9316	MT-GLAZE	1K JA 1/16W
R3606	301 225 0015	MT-GLAZE	270 JA 1/16W	R5036	301 235 1415	MT-GLAZE	1.2K JA 1/16W
R361	301 224 9712	MT-GLAZE	22 JA 1/16W	R5037	301 224 9316	MT-GLAZE	1K JA 1/16W
R362	301 224 9712	MT-GLAZE	22 JA 1/16W	R5038	301 224 9019	MT-GLAZE	10K JA 1/16W
R3621	301 224 9019	MT-GLAZE	10K JA 1/16W	R5039	301 229 7218	MT-GLAZE	18K JA 1/16W
R3622	301 224 9019	MT-GLAZE	10K JA 1/16W	R5041	301 224 9316	MT-GLAZE	1K JA 1/16W

Electrical Parts List

Key No.	Part No.	Description		Key No.	Part No.	Description	
R5042	301 224 9316	MT-GLAZE	1K JA 1/16W	R5313	301 224 9019	MT-GLAZE	10K JA 1/16W
R5043	301 276 4710	MT-GLAZE	0.000 ZA 1/3W	R5314	301 225 8615	MT-GLAZE	560K JA 1/16W
R5044	301 224 9019	MT-GLAZE	10K JA 1/16W	R5316	301 224 9316	MT-GLAZE	1K JA 1/16W
R5046	301 224 9019	MT-GLAZE	10K JA 1/16W	R5319	301 224 8814	MT-GLAZE	100 JA 1/16W
R5047	301 224 9613	MT-GLAZE	2.7K JA 1/16W	R532	301 224 8814	MT-GLAZE	100 JA 1/16W
R5048	301 224 9316	MT-GLAZE	1K JA 1/16W	R5321	301 224 9316	MT-GLAZE	1K JA 1/16W
R5051	301 224 9019	MT-GLAZE	10K JA 1/16W	R533	301 224 8814	MT-GLAZE	100 JA 1/16W
R5052	301 301 8416	MT-GLAZE	16K FA 1/16W	R543	301 224 8814	MT-GLAZE	100 JA 1/16W
R5053	301 294 3313	MT-GLAZE	15K FA 1/16W	R549	301 224 9514	MT-GLAZE	2.2K JA 1/16W
R5056	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R556	301 225 8516	MT-GLAZE	1.8K JA 1/16W
R5058	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R559	301 224 9316	MT-GLAZE	1K JA 1/16W
R5061	301 224 9316	MT-GLAZE	1K JA 1/16W	R5601	301 190 1710	MT-GLAZE	0.000 ZA 1W
R5062	301 235 1415	MT-GLAZE	1.2K JA 1/16W	R561	301 224 8814	MT-GLAZE	100 JA 1/16W
R5063	301 224 9316	MT-GLAZE	1K JA 1/16W	R562	301 224 8814	MT-GLAZE	100 JA 1/16W
R5064	301 224 9316	MT-GLAZE	1K JA 1/16W	R5622	301 218 8615	MT-GLAZE	5.6 JA 1W
R5066	301 235 1415	MT-GLAZE	1.2K JA 1/16W	R5623	301 190 1710	MT-GLAZE	0.000 ZA 1W
R5067	301 224 9316	MT-GLAZE	1K JA 1/16W	R5625	301 198 7516	MT-GLAZE	15 JA 1W
R5068	301 235 1415	MT-GLAZE	1.2K JA 1/16W	R5626	301 198 7516	MT-GLAZE	15 JA 1W
R5069	301 224 9316	MT-GLAZE	1K JA 1/16W	R5627	301 198 7516	MT-GLAZE	15 JA 1W
R5071	301 235 1415	MT-GLAZE	1.2K JA 1/16W	R563	301 224 8814	MT-GLAZE	100 JA 1/16W
R5081	301 224 9019	MT-GLAZE	10K JA 1/16W	R5631	301 224 8814	MT-GLAZE	100 JA 1/16W
R5082	301 224 9316	MT-GLAZE	1K JA 1/16W	R5632	301 225 5614	MT-GLAZE	2.2 JA 1W
R5083	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R5633	301 225 5614	MT-GLAZE	2.2 JA 1W
R513	301 224 8814	MT-GLAZE	100 JA 1/16W	R5641	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R519	301 224 9514	MT-GLAZE	2.2K JA 1/16W	R5642	301 259 2313	MT-GLAZE	200K JA 1/16W
R5201	301 224 8814	MT-GLAZE	100 JA 1/16W	R5643	301 261 1113	MT-GLAZE	24K JA 1/16W
R5202	301 224 8814	MT-GLAZE	100 JA 1/16W	R5644	301 276 4710	MT-GLAZE	0.000 ZA 1/3W
R5203	301 224 8814	MT-GLAZE	100 JA 1/16W	R5650	301 259 7823	MT-GLAZE	20K JA 1/16W
R5204	301 224 9316	MT-GLAZE	1K JA 1/16W	R5651	301 261 2011	MT-GLAZE	9.1K JA 1/16W
R5208	301 224 9316	MT-GLAZE	1K JA 1/16W	R5652	301 261 2011	MT-GLAZE	9.1K JA 1/16W
R5209	301 224 9316	MT-GLAZE	1K JA 1/16W	R5653	301 241 6619	MT-GLAZE	62K JA 1/16W
R5212	301 224 9316	MT-GLAZE	1K JA 1/16W	R5654	301 225 1715	MT-GLAZE	39K JA 1/16W
R5213	301 224 8814	MT-GLAZE	100 JA 1/16W	R5655	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R5216	301 224 8814	MT-GLAZE	100 JA 1/16W	R5656	301 241 6619	MT-GLAZE	62K JA 1/16W
R5218	301 224 8814	MT-GLAZE	100 JA 1/16W	R5657	301 225 1715	MT-GLAZE	39K JA 1/16W
R5219	301 227 2413	MT-GLAZE	15 JA 1/16W	R5658	301 261 2011	MT-GLAZE	9.1K JA 1/16W
R5226	301 224 9514	MT-GLAZE	2.2K JA 1/16W	R5659	301 261 2011	MT-GLAZE	9.1K JA 1/16W
R5227	301 224 9316	MT-GLAZE	1K JA 1/16W	R5661	301 237 2915	MT-GLAZE	51 JA 1/16W
R5228	301 227 2413	MT-GLAZE	15 JA 1/16W	R5662	301 225 8011	MT-GLAZE	330 JA 1/16W
R5233	301 227 2413	MT-GLAZE	15 JA 1/16W	R5663	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R5238	301 276 4710	MT-GLAZE	0.000 ZA 1/3W	R5664	301 227 5612	MT-GLAZE	8.2K JA 1/16W
R5239	301 037 5116	MT-GLAZE	10 JA 1/10W	R5666	301 229 7218	MT-GLAZE	18K JA 1/16W
R5241	301 035 4111	MT-GLAZE	0.000 ZA 1/8W	R5671	301 237 2915	MT-GLAZE	51 JA 1/16W
R5242	301 224 8814	MT-GLAZE	100 JA 1/16W	R5672	301 225 8011	MT-GLAZE	330 JA 1/16W
R5243	301 224 9613	MT-GLAZE	2.7K JA 1/16W	R5673	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R5244	301 261 1519	MT-GLAZE	4.3K JA 1/16W	R5674	301 286 4717	MT-GLAZE	30K JA 1/16W
R5251	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R5676	301 229 7218	MT-GLAZE	18K JA 1/16W
R5254	301 225 3818	MT-GLAZE	1.5K JA 1/16W	R5677	301 037 5017	MT-GLAZE	0.000 ZA 1/10W
R5255	301 224 9514	MT-GLAZE	2.2K JA 1/16W	R5678	301 225 0114	MT-GLAZE	27K JA 1/16W
R526	301 225 8516	MT-GLAZE	1.8K JA 1/16W	R5681	301 235 1415	MT-GLAZE	1.2K JA 1/16W
R5261	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R5682	301 224 9910	MT-GLAZE	22K JA 1/16W
R5262	301 225 1319	MT-GLAZE	470 JA 1/16W	R5683	301 261 1113	MT-GLAZE	24K JA 1/16W
R5264	301 225 3818	MT-GLAZE	1.5K JA 1/16W	R573	301 224 8814	MT-GLAZE	100 JA 1/16W
R5265	301 224 9514	MT-GLAZE	2.2K JA 1/16W	R579	301 224 9514	MT-GLAZE	2.2K JA 1/16W
R5266	301 035 4111	MT-GLAZE	0.000 ZA 1/8W	R586	301 225 8516	MT-GLAZE	1.8K JA 1/16W
R5271	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R589	301 224 9316	MT-GLAZE	1K JA 1/16W
R5274	301 225 3818	MT-GLAZE	1.5K JA 1/16W	R6803	301 224 9019	MT-GLAZE	10K JA 1/16W
R5275	301 224 9514	MT-GLAZE	2.2K JA 1/16W	R6804	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R5282	301 224 9514	MT-GLAZE	2.2K JA 1/16W	R6812	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R5289	301 224 9514	MT-GLAZE	2.2K JA 1/16W	R6813	301 224 9019	MT-GLAZE	10K JA 1/16W
R529	301 224 9316	MT-GLAZE	1K JA 1/16W	R6822	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R5301	301 035 4111	MT-GLAZE	0.000 ZA 1/8W	R6823	301 224 9019	MT-GLAZE	10K JA 1/16W
R5303	301 224 8814	MT-GLAZE	100 JA 1/16W	R6841	301 225 2019	MT-GLAZE	680 JA 1/16W
R5304	301 224 9415	MT-GLAZE	1M JA 1/16W	R6843	301 225 1616	MT-GLAZE	390 JA 1/16W
R5306	301 225 1517	MT-GLAZE	3.9K JA 1/16W	R6846	301 225 1210	MT-GLAZE	4.7K JA 1/16W
R531	301 224 8814	MT-GLAZE	100 JA 1/16W	R6848	301 225 2019	MT-GLAZE	680 JA 1/16W
R5312	301 224 9514	MT-GLAZE	2.2K JA 1/16W	R6849	301 225 2019	MT-GLAZE	680 JA 1/16W

Electrical Parts List

Key No.	Part No.	Description		Key No.	Part No.	Description	
R6851	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R852	301 225 1210	MT-GLAZE	4.7K JA 1/16W
R6853	301 225 1319	MT-GLAZE	470 JA 1/16W	R856	301 225 1814	MT-GLAZE	47 JA 1/16W
R6854	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R858	301 224 9316	MT-GLAZE	1K JA 1/16W
R6857	301 225 1616	MT-GLAZE	390 JA 1/16W	R868	301 224 9316	MT-GLAZE	1K JA 1/16W
R6858	301 225 1616	MT-GLAZE	390 JA 1/16W	R869	301 224 9316	MT-GLAZE	1K JA 1/16W
R6859	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R8811	301 225 8110	MT-GLAZE	10 JA 1/16W
R6863	301 225 3818	MT-GLAZE	1.5K JA 1/16W	R8812	301 225 8110	MT-GLAZE	10 JA 1/16W
R6864	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R8821	301 225 8110	MT-GLAZE	10 JA 1/16W
R6865	301 224 9316	MT-GLAZE	1K JA 1/16W	R8822	301 225 8110	MT-GLAZE	10 JA 1/16W
R6866	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R8831	301 225 8110	MT-GLAZE	10 JA 1/16W
R699	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R8832	301 225 8110	MT-GLAZE	10 JA 1/16W
R7803	301 224 9019	MT-GLAZE	10K JA 1/16W	R896	301 226 2414	MT-GLAZE	560 JA 1/16W
R7813	301 224 9415	MT-GLAZE	1M JA 1/16W	R898	301 224 8814	MT-GLAZE	100 JA 1/16W
R7816	301 237 2915	MT-GLAZE	51 JA 1/16W	R9822	301 225 8110	MT-GLAZE	10 JA 1/16W
R7818	301 276 3010	MT-GLAZE	75K JA 1/16W	R9823	301 225 8110	MT-GLAZE	10 JA 1/16W
R7819	301 224 8913	MT-GLAZE	100K JA 1/16W	R9882	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R7821	301 294 3511	MT-GLAZE	27K FA 1/16W	RB101	945 034 5051	R-NETWORK 22X4	1/32W
R7824	301 294 4419	MT-GLAZE	1.8K FA 1/16W		945 037 0824	R-NETWORK 22X4	1/16W
R7828	301 224 9019	MT-GLAZE	10K JA 1/16W	RB102	945 034 5051	R-NETWORK 22X4	1/32W
R7829	301 224 9910	MT-GLAZE	22K JA 1/16W		945 037 0824	R-NETWORK 22X4	1/16W
R7831	301 224 9316	MT-GLAZE	1K JA 1/16W	RB103	945 034 5051	R-NETWORK 22X4	1/32W
R7832	301 224 9019	MT-GLAZE	10K JA 1/16W		945 037 0824	R-NETWORK 22X4	1/16W
R7833	301 224 9613	MT-GLAZE	2.7K JA 1/16W	RB104	945 034 5051	R-NETWORK 22X4	1/32W
R7863	301 224 9415	MT-GLAZE	1M JA 1/16W		945 037 0824	R-NETWORK 22X4	1/16W
R7866	301 237 2915	MT-GLAZE	51 JA 1/16W	RB1401	945 034 5051	R-NETWORK 22X4	1/32W
R7868	301 276 3010	MT-GLAZE	75K JA 1/16W		945 037 0824	R-NETWORK 22X4	1/16W
R7869	301 224 8913	MT-GLAZE	100K JA 1/16W	RB1402	945 034 5051	R-NETWORK 22X4	1/32W
R7871	301 294 3511	MT-GLAZE	27K FA 1/16W		945 037 0824	R-NETWORK 22X4	1/16W
R7872	301 190 1710	MT-GLAZE	0.000 ZA 1W	RB1403	945 034 5051	R-NETWORK 22X4	1/32W
R7874	301 294 4419	MT-GLAZE	1.8K FA 1/16W		945 037 0824	R-NETWORK 22X4	1/16W
R7878	301 224 9019	MT-GLAZE	10K JA 1/16W	RB1404	945 034 5051	R-NETWORK 22X4	1/32W
R7879	301 224 9910	MT-GLAZE	22K JA 1/16W		945 037 0824	R-NETWORK 22X4	1/16W
R7881	301 224 9316	MT-GLAZE	1K JA 1/16W	RB1406	945 034 5051	R-NETWORK 22X4	1/32W
R7882	301 224 9019	MT-GLAZE	10K JA 1/16W		945 037 0824	R-NETWORK 22X4	1/16W
R7883	301 224 9613	MT-GLAZE	2.7K JA 1/16W	RB1407	945 034 5051	R-NETWORK 22X4	1/32W
R801	301 224 9019	MT-GLAZE	10K JA 1/16W		945 037 0824	R-NETWORK 22X4	1/16W
R802	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	RB1408	645 049 0668	R-NETWORK 10X4	1/32W
R803	301 226 1516	MT-GLAZE	0.000 ZA 1/16W		945 049 0683	R-NETWORK 10X4	1/16W
R804	301 224 9019	MT-GLAZE	10K JA 1/16W	RB1409	645 049 0668	R-NETWORK 10X4	1/32W
R806	301 226 1516	MT-GLAZE	0.000 ZA 1/16W		945 049 0683	R-NETWORK 10X4	1/16W
R807	301 224 9019	MT-GLAZE	10K JA 1/16W	RB1411	645 049 0668	R-NETWORK 10X4	1/32W
R808	301 224 9019	MT-GLAZE	10K JA 1/16W		945 049 0683	R-NETWORK 10X4	1/16W
R812	301 224 9019	MT-GLAZE	10K JA 1/16W	RB1412	645 049 0668	R-NETWORK 10X4	1/32W
R8201	301 225 1913	MT-GLAZE	68 JA 1/16W		945 049 0683	R-NETWORK 10X4	1/16W
R8202	301 235 2115	MT-GLAZE	82 JA 1/16W	RB1413	645 049 0668	R-NETWORK 10X4	1/32W
R8211	301 225 1913	MT-GLAZE	68 JA 1/16W		945 049 0683	R-NETWORK 10X4	1/16W
R8212	301 235 2115	MT-GLAZE	82 JA 1/16W	RB1414	645 049 0668	R-NETWORK 10X4	1/32W
R8221	301 225 1913	MT-GLAZE	68 JA 1/16W		945 049 0683	R-NETWORK 10X4	1/16W
R8222	301 235 2115	MT-GLAZE	82 JA 1/16W	RB361	945 034 5051	R-NETWORK 22X4	1/32W
R8250	301 224 9019	MT-GLAZE	10K JA 1/16W		945 037 0824	R-NETWORK 22X4	1/16W
R8251	301 037 5017	MT-GLAZE	0.000 ZA 1/10W	RB362	945 034 5051	R-NETWORK 22X4	1/32W
R8254	301 225 8110	MT-GLAZE	10 JA 1/16W		945 037 0824	R-NETWORK 22X4	1/16W
R8256	301 224 9613	MT-GLAZE	2.7K JA 1/16W	RB363	945 034 5051	R-NETWORK 22X4	1/32W
R8257	301 225 8110	MT-GLAZE	10 JA 1/16W		945 037 0824	R-NETWORK 22X4	1/16W
R8258	301 225 8110	MT-GLAZE	10 JA 1/16W	RB364	945 034 5051	R-NETWORK 22X4	1/32W
R8261	301 224 9019	MT-GLAZE	10K JA 1/16W		945 037 0824	R-NETWORK 22X4	1/16W
R8262	301 224 8814	MT-GLAZE	100 JA 1/16W	RB366	945 034 5051	R-NETWORK 22X4	1/32W
R8263	301 224 8814	MT-GLAZE	100 JA 1/16W		945 037 0824	R-NETWORK 22X4	1/16W
R8291	301 276 4710	MT-GLAZE	0.000 ZA 1/3W	RB367	945 034 5051	R-NETWORK 22X4	1/32W
R839	301 225 0213	MT-GLAZE	3.3K JA 1/16W		945 037 0824	R-NETWORK 22X4	1/16W
R840	301 225 1319	MT-GLAZE	470 JA 1/16W	RB8251	945 034 5051	R-NETWORK 22X4	1/32W
R841	301 224 8913	MT-GLAZE	100K JA 1/16W		945 037 0824	R-NETWORK 22X4	1/16W
R846	301 224 9316	MT-GLAZE	1K JA 1/16W	RB8252	945 034 5051	R-NETWORK 22X4	1/32W
R847	301 226 2414	MT-GLAZE	560 JA 1/16W		945 037 0824	R-NETWORK 22X4	1/16W
R848	301 225 3818	MT-GLAZE	1.5K JA 1/16W	RB8253	945 034 5051	R-NETWORK 22X4	1/32W
R849	301 225 1210	MT-GLAZE	4.7K JA 1/16W		945 037 0824	R-NETWORK 22X4	1/16W
R851	301 225 1210	MT-GLAZE	4.7K JA 1/16W	RB8254	945 034 5051	R-NETWORK 22X4	1/32W

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
RB8256	945 037 0824	R-NETWORK 22X4 1/16W	D3602	307 163 0414	DIODE 1SS352-(TPH3)
	945 034 5051	R-NETWORK 22X4 1/32W		307 149 0810	DIODE 1SS355-TE-17
	945 037 0824	R-NETWORK 22X4 1/16W	D3603	307 163 0414	DIODE 1SS352-(TPH3)
	945 034 5051	R-NETWORK 22X4 1/32W		307 149 0810	DIODE 1SS355-TE-17
RB8257	945 037 0824	R-NETWORK 22X4 1/16W	D3604	307 163 0414	DIODE 1SS352-(TPH3)
TRANSFORMER				307 149 0810	DIODE 1SS355-TE-17
T5601	305 139 7719	TR IMZ1A-T108	D3606	307 163 0414	DIODE 1SS352-(TPH3)
T5611	305 139 7719	TR IMZ1A-T108		307 149 0810	DIODE 1SS355-TE-17
COIL			D3607	307 163 0414	DIODE 1SS352-(TPH3)
L1002	945 068 8349	FILTER,EMI 400MHZ		307 149 0810	DIODE 1SS355-TE-17
L1012	945 068 8349	FILTER,EMI 400MHZ	D3608	307 163 0414	DIODE 1SS352-(TPH3)
L1022	945 068 8349	FILTER,EMI 400MHZ		307 149 0810	DIODE 1SS355-TE-17
L1031	945 068 8332	FILTER,EMI 200MHZ	D3609	307 163 0414	DIODE 1SS352-(TPH3)
L1041	945 068 8332	FILTER,EMI 200MHZ		307 149 0810	DIODE 1SS355-TE-17
L105	945 059 2264	INDUCTOR,4.7U M	D3611	307 163 0414	DIODE 1SS352-(TPH3)
L1051	945 068 8349	FILTER,EMI 400MHZ		307 149 0810	DIODE 1SS355-TE-17
L106	945 059 2264	INDUCTOR,4.7U M	D3612	307 163 0414	DIODE 1SS352-(TPH3)
L1061	945 068 8349	FILTER,EMI 400MHZ		307 149 0810	DIODE 1SS355-TE-17
L107	945 059 2264	INDUCTOR,4.7U M	D3613	307 163 0414	DIODE 1SS352-(TPH3)
L1071	945 068 8349	FILTER,EMI 400MHZ		307 149 0810	DIODE 1SS355-TE-17
L108	945 059 2264	INDUCTOR,4.7U M	D3614	307 163 0414	DIODE 1SS352-(TPH3)
L1081	945 068 8332	FILTER,EMI 200MHZ		307 149 0810	DIODE 1SS355-TE-17
L109	301 037 5017	MT-GLAZE 0.000 ZA 1/10W	D3617	307 163 0414	DIODE 1SS352-(TPH3)
L1091	945 068 8332	FILTER,EMI 200MHZ		307 149 0810	DIODE 1SS355-TE-17
L1801	945 062 2824	INDUCTOR,3.3U M	D3618	307 163 0414	DIODE 1SS352-(TPH3)
L2001	945 068 8325	FILTER,EMI 20MHZ		307 149 0810	DIODE 1SS355-TE-17
L2011	301 035 4111	MT-GLAZE 0.000 ZA 1/8W	D3619	307 163 0414	DIODE 1SS352-(TPH3)
L2012	945 068 8318	FILTER,EMI 100MHZ		307 149 0810	DIODE 1SS355-TE-17
L2021	301 035 4111	MT-GLAZE 0.000 ZA 1/8W	D3620	307 163 0414	DIODE 1SS352-(TPH3)
L2022	945 068 8318	FILTER,EMI 100MHZ		307 149 0810	DIODE 1SS355-TE-17
L2031	301 035 4111	MT-GLAZE 0.000 ZA 1/8W	D3621	307 163 0414	DIODE 1SS352-(TPH3)
L2032	945 068 8318	FILTER,EMI 100MHZ		307 149 0810	DIODE 1SS355-TE-17
L2041	945 068 8325	FILTER,EMI 20MHZ	D3622	307 163 0414	DIODE 1SS352-(TPH3)
L2051	945 068 8325	FILTER,EMI 20MHZ		307 149 0810	DIODE 1SS355-TE-17
L3002	945 068 8325	FILTER,EMI 20MHZ	D3623	307 163 0414	DIODE 1SS352-(TPH3)
L3011	945 068 8325	FILTER,EMI 20MHZ		307 149 0810	DIODE 1SS355-TE-17
L302	945 050 8449	IMPEDANCE,1000 OHM P	D3624	307 163 0414	DIODE 1SS352-(TPH3)
L3051	945 068 8325	FILTER,EMI 20MHZ		307 149 0810	DIODE 1SS355-TE-17
L3061	945 068 8325	FILTER,EMI 20MHZ	D3626	307 163 0414	DIODE 1SS352-(TPH3)
L3081	945 068 8325	FILTER,EMI 20MHZ		307 149 0810	DIODE 1SS355-TE-17
L3082	945 068 8325	FILTER,EMI 20MHZ	D3627	307 163 0414	DIODE 1SS352-(TPH3)
L351	945 050 8449	IMPEDANCE,1000 OHM P		307 149 0810	DIODE 1SS355-TE-17
L3531	945 062 2824	INDUCTOR,3.3U M	D4812	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
L3581	945 062 2824	INDUCTOR,3.3U M		307 209 1214	ZD UDZS-TE-176.2B
L401	301 035 4111	MT-GLAZE 0.000 ZA 1/8W	D4813	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
L5031	945 062 2824	INDUCTOR,3.3U M		307 209 1214	ZD UDZS-TE-176.2B
L5302	945 059 2264	INDUCTOR,4.7U M	D5061	307 163 0414	DIODE 1SS352-(TPH3)
L5311	945 059 2264	INDUCTOR,4.7U M		307 149 0810	DIODE 1SS355-TE-17
L5601	945 062 2855	INDUCTOR,33U M	D5062	307 163 0414	DIODE 1SS352-(TPH3)
L5611	945 062 2855	INDUCTOR,33U M		307 149 0810	DIODE 1SS355-TE-17
L5612	945 033 7940	INDUCTOR,33U M	D5601	307 201 2724	DIODE RB051L-40-TE25
L7811	945 038 4579	INDUCTOR,33U M	D5602	307 254 2914	ZENER DIODE 02DZ6.8Y(TPH3
L7861	945 038 4562	INDUCTOR,100U M		307 209 4512	ZD UDZS-TE-176.8B
L8251	301 035 4111	MT-GLAZE 0.000 ZA 1/8W	D5611	307 201 2724	DIODE RB051L-40-TE25
DIODE			D5612	307 254 2914	ZENER DIODE 02DZ6.8Y(TPH3
D2002	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3		307 209 4512	ZD UDZS-TE-176.8B
	307 209 1214	ZD UDZS-TE-176.2B	D5621	301 037 5017	MT-GLAZE 0.000 ZA 1/10W
D2896	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3	D5631	307 254 2914	ZENER DIODE 02DZ6.8Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B		307 209 4512	ZD UDZS-TE-176.8B
D2897	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3	D6831	307 209 7513	LED SML-210YT T86 L
	307 209 1214	ZD UDZS-TE-176.2B	D6832	307 203 7816	LED SML-210LT T86 M
D3051	307 163 0414	DIODE 1SS352-(TPH3)	D6833	307 222 4810	LED SML-521MUW T86
	307 149 0810	DIODE 1SS355-TE-17	D6841	307 223 0514	ZENER DIODE 02DZ12Y(TPH3)
D3601	307 163 0414	DIODE 1SS352-(TPH3)		307 221 7119	ZENER DIODE UDZS-TE-1712B
	307 149 0810	DIODE 1SS355-TE-17	D6842	307 223 0514	ZENER DIODE 02DZ12Y(TPH3)
				307 221 7119	ZENER DIODE UDZS-TE-1712B
			D6843	307 223 0514	ZENER DIODE 02DZ12Y(TPH3)

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
D6844	307 221 7119	ZENER DIODE UDZS-TE-1712B	SC314	945 076 3503	SURGE-ABSORBER
	307 223 0514	ZENER DIODE 02DZ12Y(TPH3)	SC316	945 076 3503	SURGE-ABSORBER
	307 221 7119	ZENER DIODE UDZS-TE-1712B	SC5601	945 076 3503	SURGE-ABSORBER
D7812	307 201 2724	DIODE RB051L-40-TE25	SC5602	945 076 3503	SURGE-ABSORBER
D7862	307 201 2724	DIODE RB051L-40-TE25	SC5603	945 076 3503	SURGE-ABSORBER
MISCELLANEOUS			SC5607	945 076 3503	SURGE-ABSORBER
FB2881	945 041 1978	INDUCTOR,330 OHM	SC5608	945 076 3503	SURGE-ABSORBER
FB2882	945 041 1978	INDUCTOR,330 OHM	SW50A	945 010 7659	SWITCH,PUSH 1P-1TX1
FB2896	945 041 1978	INDUCTOR,330 OHM	X101	945 076 4654	OSC,CRYSTAL 24.576MHZ
FB3621	945 041 1978	INDUCTOR,330 OHM	X1331	945 076 0281	OSC,CRYSTAL 14.31818MHZ
FB3622	945 041 1978	INDUCTOR,330 OHM	X1801	645 092 8857	OSC,CRYSTAL 48MHZ
FB3623	945 041 1978	INDUCTOR,330 OHM	610 331 4204 ASSY,PWB,ALARM-B LG6AC		
FB3624	945 041 1978	INDUCTOR,330 OHM	RESISTOR		
FB3626	945 041 1978	INDUCTOR,330 OHM	R8751	301 256 2019	MT-GLAZE 430 JA 1/10W
FB3627	945 041 1978	INDUCTOR,330 OHM	DIODE		
FB4801	945 041 1978	INDUCTOR,330 OHM	D8751	307 204 0014	LED SML-210LT T86 L
FB601	945 041 1978	INDUCTOR,330 OHM	MISCELLANEOUS		
FB602	945 041 1978	INDUCTOR,330 OHM	SW8751	910 011 1791	SWITCH,PUSH
FB603	945 041 1978	INDUCTOR,330 OHM	SW8752	910 011 1791	SWITCH,PUSH
FB604	945 041 1978	INDUCTOR,330 OHM	SW8753	910 011 1791	SWITCH,PUSH
FB606	945 041 1978	INDUCTOR,330 OHM	SW8754	910 011 1791	SWITCH,PUSH
FB607	945 041 1978	INDUCTOR,330 OHM	610 332 4425 ASSY,PWB,ALARM-A LK6AC		
FB608	945 041 1978	INDUCTOR,330 OHM	TRANSISTOR		
FB609	945 041 1978	INDUCTOR,330 OHM	Q8701	305 014 4512	TR 2SC2412K T146 R
K10A	945 050 8012	SOCKET,D-SUB 15P		305 014 4611	TR 2SC2412K T146 S
	952 001 6874	SOCKET,D-SUB 15P		305 015 8727	TR 2SC2812-L6-TB
K10B	945 050 8012	SOCKET,D-SUB 15P		305 015 8925	TR 2SC2812-L7-TB
	952 001 6874	SOCKET,D-SUB 15P		305 163 1615	TR 2SC2812N-L6-TB0
K20A	945 076 2735	JACK,RCA-2		305 173 9816	TR 2SC3928A1R
	952 001 9585	JACK,RCA-2		305 173 9915	TR 2SC3928A1S
K20B	945 067 6124	TERMINAL,BOARD	Q8702	305 014 4512	TR 2SC2412K T146 R
	952 001 7932	TERMINAL, BOARD		305 014 4611	TR 2SC2412K T146 S
K30B	945 076 2742	JACK,PHON D3.6		305 015 8727	TR 2SC2812-L6-TB
	652 002 1808	JACK,PHONE D3.6		305 015 8925	TR 2SC2812-L7-TB
K40A	645 075 1752	SOCKET,USB 4P		305 163 1615	TR 2SC2812N-L6-TB0
K40B	945 078 1613	SOCKET,DIN 8P		305 173 9816	TR 2SC3928A1R
	952 001 8427	SOCKET,DIN 8P		305 173 9915	TR 2SC3928A1S
SC1031	945 076 3503	SURGE-ABSORBER	Q8751	305 134 5928	TR 2SA1037AK-T146-R
SC1041	945 076 3503	SURGE-ABSORBER		305 147 2218	TR 2SA1037AK-S-T146
SC1081	945 076 3503	SURGE-ABSORBER		305 002 0311	TR 2SA1037K T146 R
SC1091	945 076 3503	SURGE-ABSORBER		305 002 0410	TR 2SA1037K T146 S
SC2001	945 076 3503	SURGE-ABSORBER		305 002 6729	TR 2SA1179-M6-TB
SC2011	945 076 3503	SURGE-ABSORBER		305 002 6927	TR 2SA1179-M7-TB
SC2021	945 076 3503	SURGE-ABSORBER		305 163 1516	TR 2SA1179N-M6-TB
SC2031	945 076 3503	SURGE-ABSORBER		305 173 9618	TR 2SA1235A1E
SC2041	945 076 3503	SURGE-ABSORBER		305 173 9717	TR 2SA1235A1F
SC2051	945 076 3503	SURGE-ABSORBER	Q8752	305 014 4512	TR 2SC2412K T146 R
SC3001	945 076 3503	SURGE-ABSORBER		305 014 4611	TR 2SC2412K T146 S
SC301	945 076 3503	SURGE-ABSORBER		305 015 8727	TR 2SC2812-L6-TB
SC3011	945 076 3503	SURGE-ABSORBER		305 015 8925	TR 2SC2812-L7-TB
SC302	945 076 3503	SURGE-ABSORBER		305 163 1615	TR 2SC2812N-L6-TB0
SC303	945 076 3503	SURGE-ABSORBER		305 173 9816	TR 2SC3928A1R
SC304	945 076 3503	SURGE-ABSORBER		305 173 9915	TR 2SC3928A1S
SC3051	945 076 3503	SURGE-ABSORBER	Q8753	305 191 5814	TR 3LN01C-TB-E
SC306	945 076 3503	SURGE-ABSORBER	Q8754	305 191 5814	TR 3LN01C-TB-E
SC3061	945 076 3503	SURGE-ABSORBER	Q8756	305 134 5928	TR 2SA1037AK-T146-R
SC307	945 076 3503	SURGE-ABSORBER		305 147 2218	TR 2SA1037AK-S-T146
SC3071	945 076 3503	SURGE-ABSORBER		305 002 0311	TR 2SA1037K T146 R
SC3072	945 076 3503	SURGE-ABSORBER		305 002 0410	TR 2SA1037K T146 S
SC3073	945 076 3503	SURGE-ABSORBER			
SC308	945 076 3503	SURGE-ABSORBER			
SC3081	945 076 3503	SURGE-ABSORBER			
SC3082	945 076 3503	SURGE-ABSORBER			
SC309	945 076 3503	SURGE-ABSORBER			
SC3091	945 076 3503	SURGE-ABSORBER			
SC311	945 076 3503	SURGE-ABSORBER			
SC313	945 076 3503	SURGE-ABSORBER			

Electrical Parts List

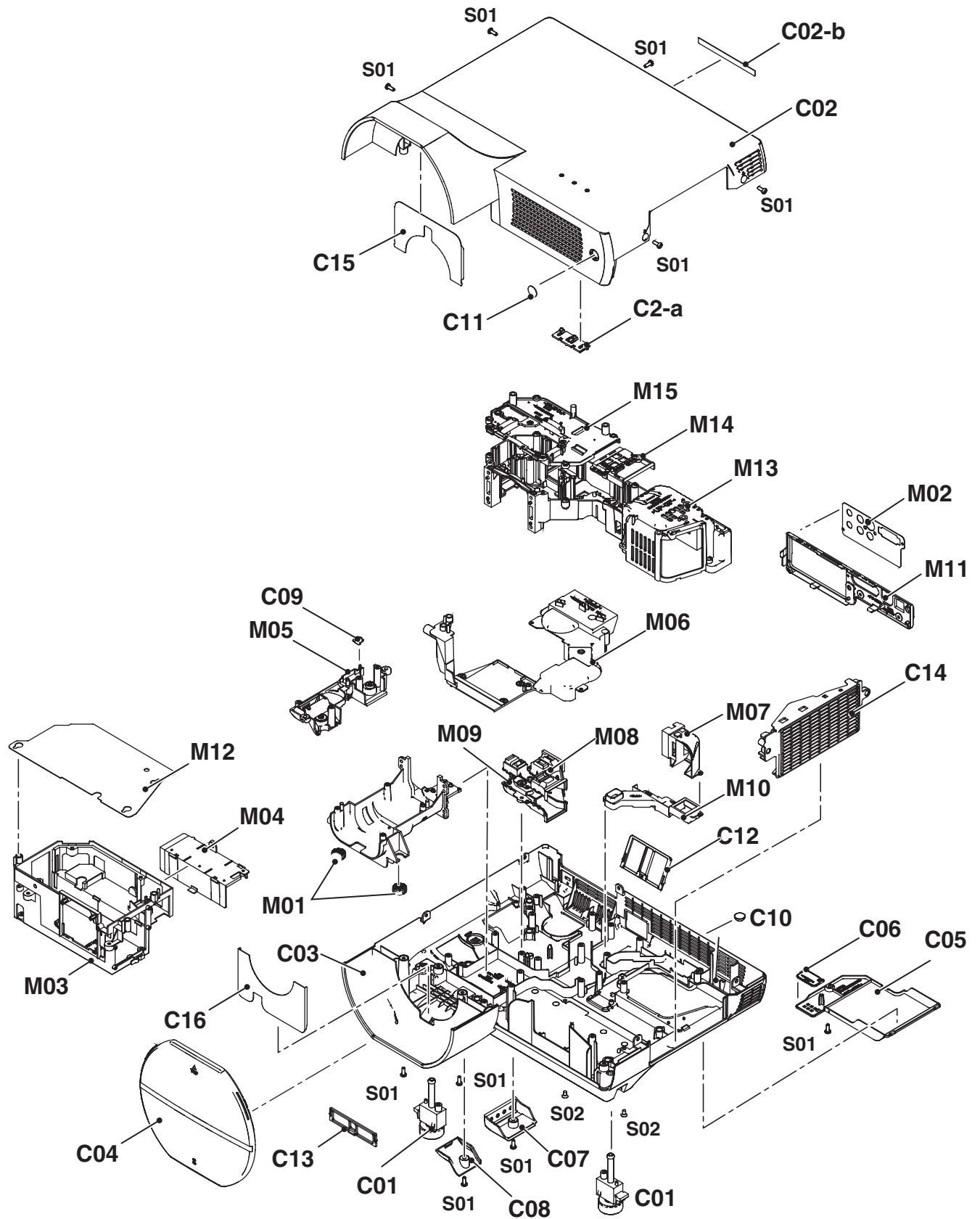
Key No.	Part No.	Description	Key No.	Part No.	Description
	305 002 6729	TR 2SA1179-M6-TB	R8763	301 150 6212	MT-GLAZE 1K JA 1/10W
	305 002 6927	TR 2SA1179-M7-TB	R8764	301 255 8111	MT-GLAZE 5.1K JA 1/10W
	305 163 1516	TR 2SA1179N-M6-TB	R8765	301 150 6014	MT-GLAZE 0.000 ZA 1/10W
	305 173 9618	TR 2SA1235A1E	R8771	301 234 4714	MT-GLAZE 3.3 JA 1W
	305 173 9717	TR 2SA1235A1F	R8772	301 234 4714	MT-GLAZE 3.3 JA 1W
Q8757	305 191 5814	TR 3LN01C-TB-E	R8773	301 162 3117	MT-GLAZE 3.3K JA 1/10W
Q8758	305 191 5814	TR 3LN01C-TB-E	R8776	301 162 3117	MT-GLAZE 3.3K JA 1/10W
Q8759	305 191 5814	TR 3LN01C-TB-E	R8777	301 150 6212	MT-GLAZE 1K JA 1/10W
INTEGRATED CIRCUIT			R8778	301 255 9514	MT-GLAZE 220K JA 1/10W
IC8701	410 628 6603	IC R5F21134FP-C803B	R8779	301 255 9514	MT-GLAZE 220K JA 1/10W
IC8703	309 155 7329	IC TC4571F-TE85R	R8782	301 150 6014	MT-GLAZE 0.000 ZA 1/10W
IC8708	310 596 5205	IC S-1000C27-M5T1G	R8784	301 150 6014	MT-GLAZE 0.000 ZA 1/10W
IC8712	309 482 3817	IC NJM2360AM(TE2)	R8787	301 150 6014	MT-GLAZE 0.000 ZA 1/10W
CAPACITOR			COIL		
C8701	303 342 3313	CERAMIC 0.1U K 25V	L6801	945 033 7995	INDUCTOR,100U M
	304 095 0809	CERAMIC 0.1U K 25V	DIODE		
C8702	303 342 3313	CERAMIC 0.1U K 25V	D8701	307 163 0414	DIODE 1SS352-(TPH3)
	304 095 0809	CERAMIC 0.1U K 25V		307 149 0810	DIODE 1SS355-TE-17
C8703	303 342 3313	CERAMIC 0.1U K 25V	D8702	307 210 5416	DIODE RB551V-30-TE-17
	304 095 0809	CERAMIC 0.1U K 25V	D8703	307 210 5416	DIODE RB551V-30-TE-17
C8704	303 342 3313	CERAMIC 0.1U K 25V	D8704	307 210 5416	DIODE RB551V-30-TE-17
	304 095 0809	CERAMIC 0.1U K 25V	D8708	307 210 5416	DIODE RB551V-30-TE-17
C8705	303 391 5313	ELECT 47U M 6.3V	D8709	307 210 5416	DIODE RB551V-30-TE-17
	303 184 8019	ELECT 47U M 6.3V	MISCELLANEOUS		
C8706	303 305 9918	CERAMIC 680P J 25V	IC8706A	910 325 2491	STOPPER FLT BATTERY B-PZ5A
C8707	303 398 3817	ELECT 220U M 16V		610 332 3541	STOPPER FLT BATTERY B-LG6AC
	403 457 1416	ELECT 220U M 16V	IC8706B	910 325 2651	STOPPER FLT BATTERY A-PZ5A
				610 332 3589	STOPPER FLT BATTERY A-LG6AC
RESISTOR			IC8709	420 002 2404	PZ BZR PKM22EPPH4007
R8701	301 150 5918	MT-GLAZE 10K JA 1/10W	IC8710	945 081 3857	SWITCH,SENSOR 2P-2T
R8702	301 150 5918	MT-GLAZE 10K JA 1/10W	SW8702	945 063 5176	SWITCH,PUSH 2P-2TX3
R8703	301 150 5918	MT-GLAZE 10K JA 1/10W	PACKING MATERIALS		
R8704	301 150 5918	MT-GLAZE 10K JA 1/10W		610 333 9559	SPACER LENS-LK6AC
R8706	301 255 8111	MT-GLAZE 5.1K JA 1/10W		610 331 9230	CARTON CASE-LK6AC
R8707	301 150 5918	MT-GLAZE 10K JA 1/10W		610 332 2759	CUSHION SPACER-LK6AC
R8709	301 162 3612	MT-GLAZE 470 JA 1/10W		610 334 5666	CUSHION SPACER TOP-LK6AC
R8711	301 150 5918	MT-GLAZE 10K JA 1/10W		610 334 5765	CUSHION SPACER BTM-LK6AC
R8712	301 150 5918	MT-GLAZE 10K JA 1/10W		610 334 5758	CUSHION SPACER FB-LK6AC
R8713	301 150 5918	MT-GLAZE 10K JA 1/10W		610 334 5826	CUSHION SPACER LR-LK6AC
R8714	301 162 3117	MT-GLAZE 3.3K JA 1/10W		610 334 5734	CUSHION SPACER LNS SIDE-LK6AC
R8715	301 162 3117	MT-GLAZE 3.3K JA 1/10W		610 332 8386	LENS CAUTION CARD-LK6A
R8716	301 162 3117	MT-GLAZE 3.3K JA 1/10W	ACCESSORIES		
R8717	301 150 5918	MT-GLAZE 10K JA 1/10W	OWNER'S MANUAL		
R8718	301 150 5918	MT-GLAZE 10K JA 1/10W		610 332 4463	CD-ROM,OWNERS MANUAL-KK6AC
R8719	301 150 5918	MT-GLAZE 10K JA 1/10W		610 331 0015	SETUP INST MANUAL-LK6A
R8721	301 150 5918	MT-GLAZE 10K JA 1/10W	REMOTE CONTROL		
R8722	301 150 6212	MT-GLAZE 1K JA 1/10W		945 084 8538	ASSY,REMOCON CXVB
R8723	301 162 3612	MT-GLAZE 470 JA 1/10W		910 321 4482	RC-BATTERY LID-CXTJ
R8724	301 150 5918	MT-GLAZE 10K JA 1/10W	AC CORD		
R8726	301 150 5918	MT-GLAZE 10K JA 1/10W	△ (EU)	945 054 1156	CORD,POWER-3.0MK
R8731	301 150 5918	MT-GLAZE 10K JA 1/10W	△ (UK)	945 054 1149	CORD,POWER-3.138MK
R8732	301 150 5819	MT-GLAZE 100K JA 1/10W	△ (US)	945 064 6363	CORD,POWER-3.0MK, US
R8733	301 255 6513	MT-GLAZE 100 JA 1/10W	MISCELLANEOUS		
R8747	301 162 3810	MT-GLAZE 470K JA 1/10W		610 332 3299	STRAP COMP-LK6AC
R8748	301 150 5819	MT-GLAZE 100K JA 1/10W		945 081 8722	BATTERY,LITHIUM
R8749	301 150 5819	MT-GLAZE 100K JA 1/10W		945 088 6837	BATTERY,LITHIUM
R8750	301 256 5812	MT-GLAZE 270K JA 1/10W			
R8752	301 234 4714	MT-GLAZE 3.3 JA 1W			
R8754	301 256 0213	MT-GLAZE 120K JA 1/10W			
R8755	301 234 4714	MT-GLAZE 3.3 JA 1W			
R8756	301 255 5912	MT-GLAZE 200 JA 1/10W			
R8757	301 255 9712	MT-GLAZE 82K JA 1/10W			
R8758	301 255 8517	MT-GLAZE 9.1K JA 1/10W			
R8759	301 256 0213	MT-GLAZE 120K JA 1/10W			
R8761	301 150 6113	MT-GLAZE 2.2K JA 1/10W			
R8762	301 150 6212	MT-GLAZE 1K JA 1/10W			

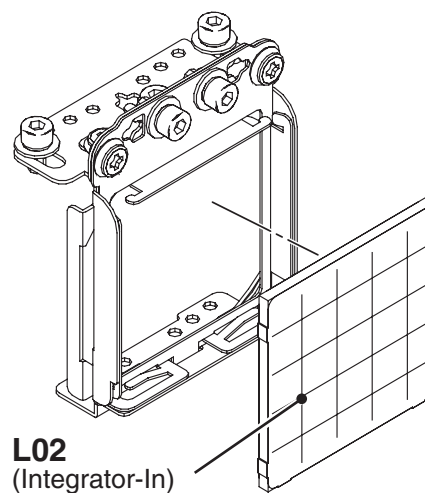
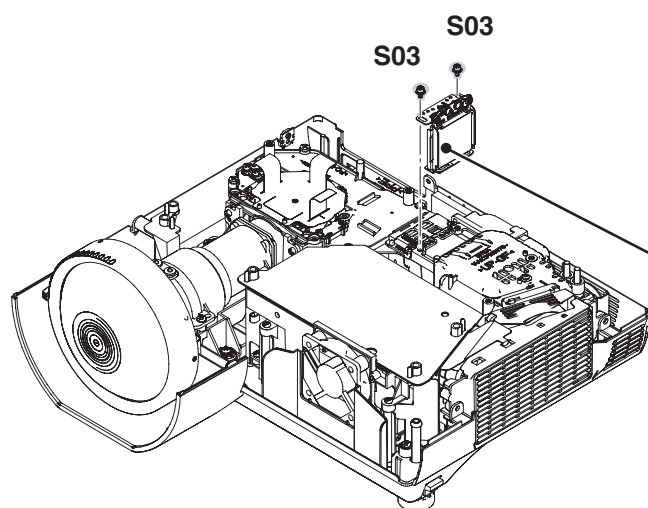
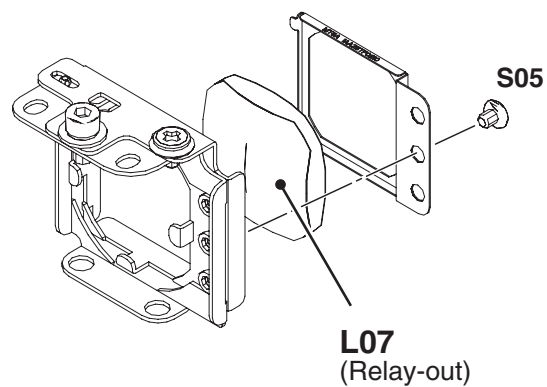
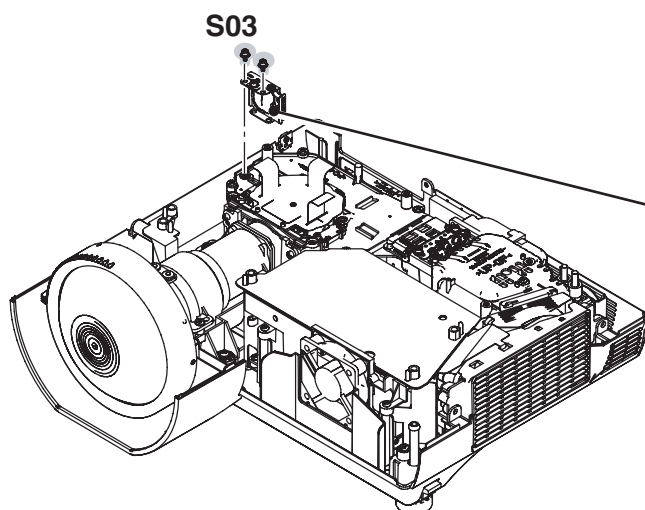
Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
	945 073 4855	CABLE,INTERFACE VGA			
	645 093 1642	CABLE,INTERFACE VGA			

Mechanical Parts List

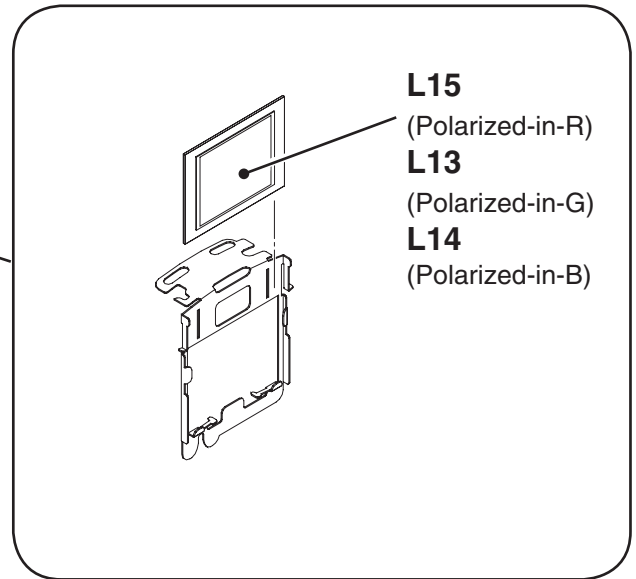
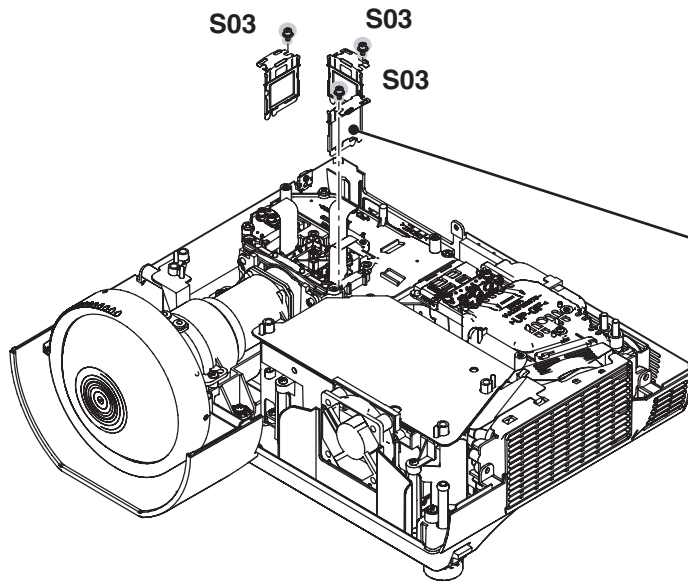
Cabinet Parts Location



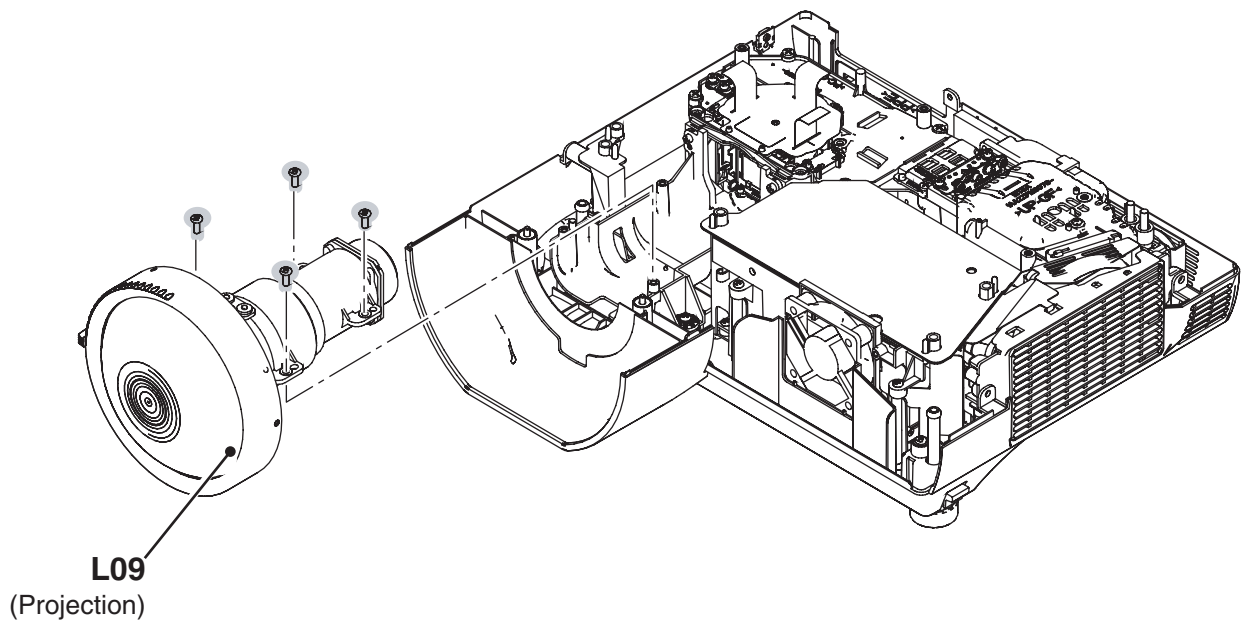
Mechanical Parts List**Optical Parts Location****Integrator Lens-In****Relay Lens-Out**

Mechanical Parts List

Polarized Glass-In

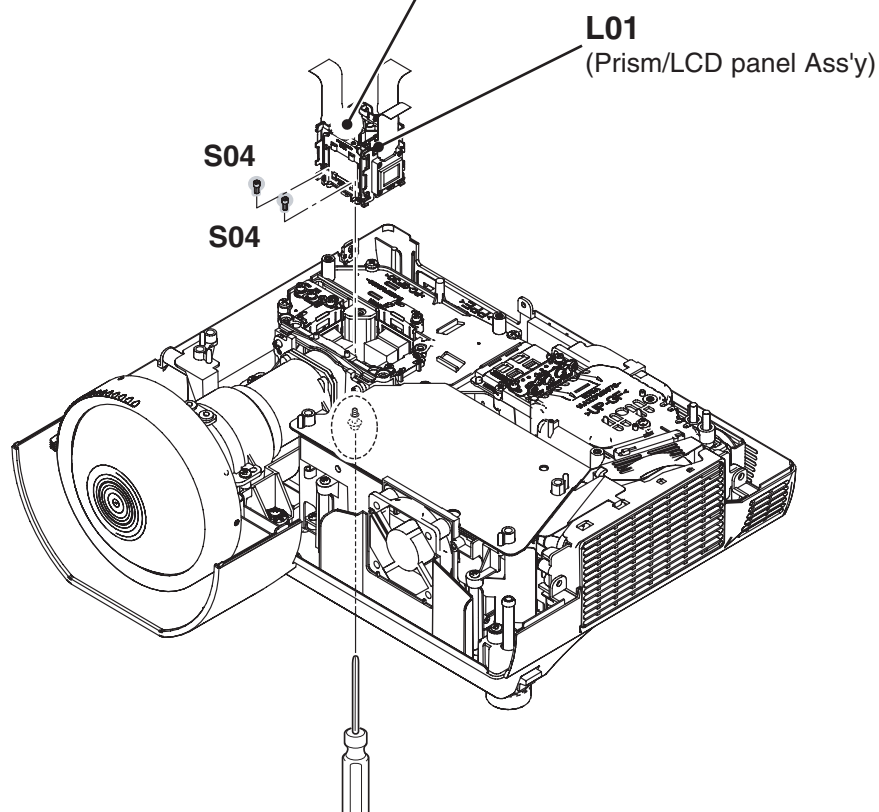
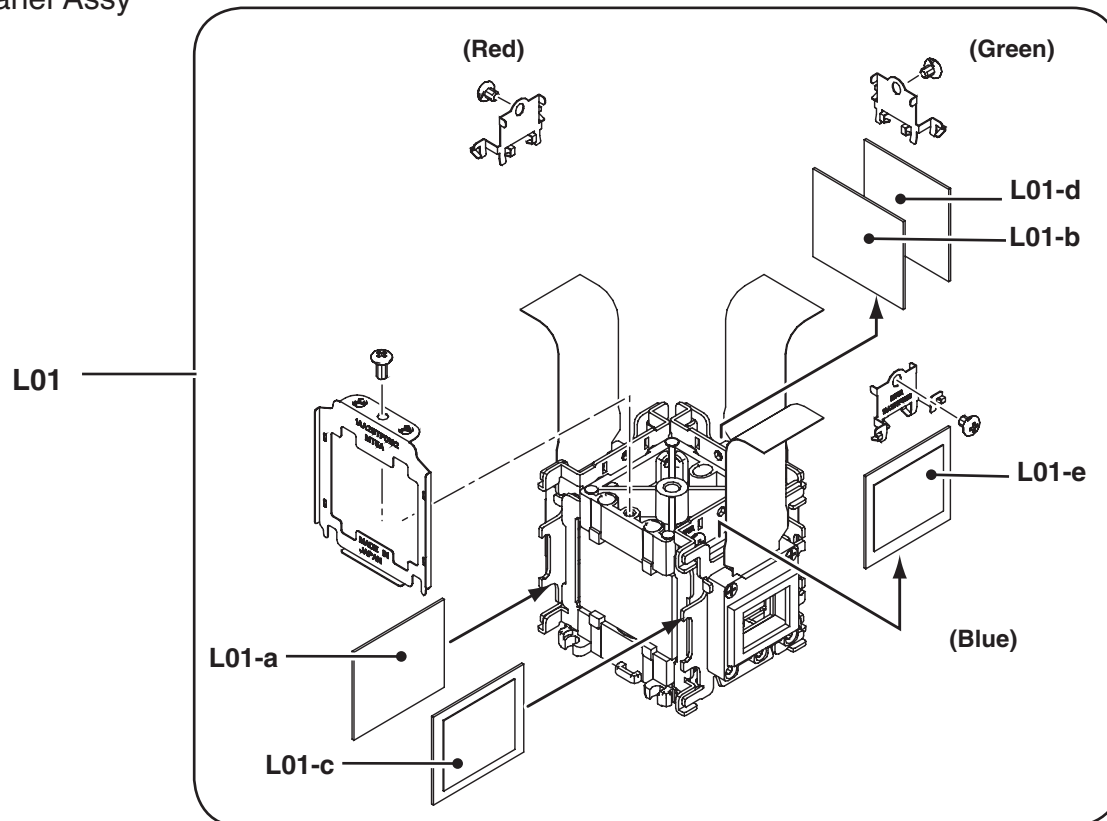


Projection Lens



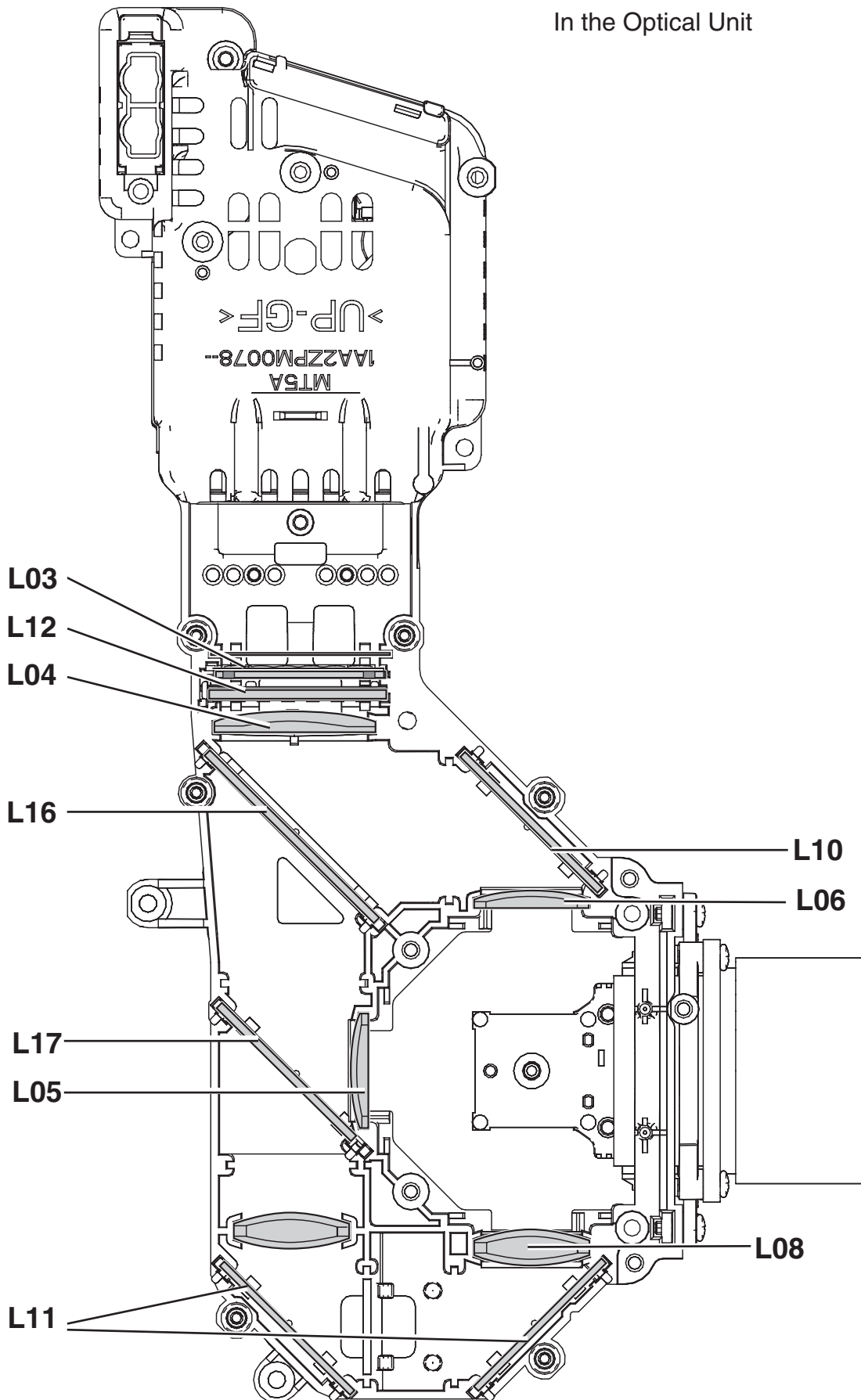
Mechanical Parts List

Prism/LCD Panel Assy



Mechanical Parts List

In the Optical Unit



Mechanical Parts List

Mechanical Parts List

Note: Parts order must contain Chassis No., Part No., and Descriptions.

Key No.	Part No.	Description	Key No.	Part No.	Description
CABINET PARTS			L12	945 078 0845	PRISM(PBS)
C01	910 323 1779	ASSY,STAND LEG-MT5A	L13	945 087 1178	POLARIZED GLASS(IN/G)
	910 330 9362	ASSY,STAND-KT6AC	L14	945 083 3886	POLARIZED GLASS(IN/B)
C02	610 332 4401	CABINET TOP SERVICE-LK6AC	L15	945 083 6559	POLARIZED GLASS(IN/R)
	(Including Key No. C02-a and C02-b)		L16	945 085 0043	DICHROIC MIRROR (B)
C02-a	910 325 2538	DEC INLAY LED-PT5EC	L17	945 078 0784	DAICHROIC MIRROR(G)
C02-b	910 325 2606	DEC AV SHEET A-PT5EC			
C03	610 332 4326	CABINET BOTTOM SERVICE-LK6AC			
C04	610 331 1302	CAP LENS-LK6AC			
C05	610 332 4364	COVER ,LP SERVICE-LG6AC			
C06	910 325 2040	COVER, FUSE-PT5EC			
C07	610 332 0274	COVER, ALARM-LK6AC			
C08	610 331 1562	COVER, ALARM BATTERY-LG6AC			
C09	610 331 1142	DEC INLAY LED-LG6AC			
C10	910 325 2477	DEC LEG-PT5EC			
C11	910 302 5613	DEC SHEET-M4JA			
C12	910 325 2033	FILTER BASE B-PT5EC			
C13	910 325 1982	FILTER BASE F-PT5EC			
C14	610 331 1494	GRILLE -LG6AC			
C15	610 332 0281	SPACER SHEET LENS TOP-LK6AC			
C16	610 332 0267	SPACER SHEET LENS BTM-LK6AC			
CHASSIS PARTS					
M01	610 332 4746	BUSH-KK6A			
M02	910 325 2460	DEC AV SHEET-PT5EC			
M03	610 331 9025	HOLDER POWER PWB B-KW6AC			
M04	910 325 2675	HOLDER LN FLT-PT5EC			
M05	610 331 1098	HOLDER ALARM PWB -LK6AC			
M06	610 332 0625	MOUNTING DUCT TOP-LK6AC			
M10	910 325 2231	MOUNTING DUCT PBS-PT5EC			
M08	910 325 2156	MOUNTING DUCT TOP#PNL-PT5EC			
M09	910 325 2347	MOUNTING DUCT BTM#PNL-PT5EC			
M07	910 325 1913	MOUNTING DUCT LP-PT5EC			
M11	610 331 1081	PANEL AV-KW6AC			
M12	910 325 2576	SPACER SHEET#POWER T-PT5EC			
M13	910 321 7810	OPTICAL BASE BTM-MT5A			
M14	910 321 7896	OPTICAL BASE TOP A-MT5A			
M15	910 321 7780	OPTICAL BASE TOP B-MT5A			
SCREWS					
S01	411 189 8600	SCR BIN 3X8			
S02	411 203 9507	SCR TPG FLT 3X6			
S03	411 189 6507	BOLT HEX-SCT+SW+W 2.5X5			
S04	312 069 4708	SPECIAL SCREW			
S05	411 192 9601	SCR BIN 2X3			
OPTICAL PARTS					
L01	610 332 4340	ASSY,LCD PNL/PSM -LK6AC			
	(Including Key No. L01-a to L01-e and LCD Panels)				
L01-a	945 077 8354	POLARIZED GLASS(OUT/R)			
L01-b	645 090 2031	POLARIZED GLASS(OUT/G)			
L01-c	945 083 6580	POLARIZED GLASS(OUT/B)			
L01-d	945 077 8385	PRE-POLARIZED GLASS			
L01-e	945 083 6597	PRE-POLARIZED GLASS			
L02	945 078 0692	LENS,INTEGRATOR(IN)			
L03	945 087 0843	LENS,INTEGRATOR(OUT)-NC			
L04	945 078 0722	LENS,CONDENSER(OUT)			
L05	945 078 0739	LENS,CONDENSER(G)			
L06	945 078 0746	LENS,CONDENSER(B)			
L07	945 078 0753	LENS,RELAY(OUT)			
L08	945 078 0760	LENS,CONDENSER(R)			
L09	945 086 5269	LENS,PROJECTION			
	645 091 3907	LENS,PROJECTION			
L10	945 081 7640	MIRROR(B)			
L11	945 081 7657	MIRROR(R)			

Mechanical Parts List



Diagrams & Drawings

Schematic Diagrams Printed Wiring Board Drawings

Model	Chassis No.
PLC-XE40	LK6-XE4001

These schematic diagrams and printed wiring board drawings are part of the service manual original for chassis No. LK6-XE4001 model PLC-XE40. File with the service manual No. SM5110793-03.

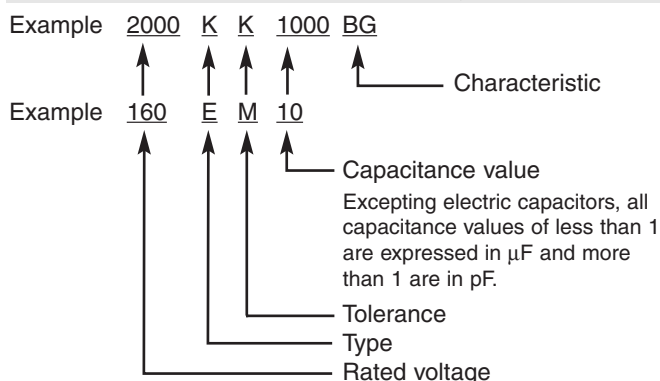
Note:

All the information of part numbers and values indicated on these diagrams are at the beginning of production. To improve the performance, there may be some differences to the actual set. When you order the service parts, use service parts code mentioned on the parts list in this service manual.

Parts description and reading in schematic diagram

1. The parts specification of resistors, capacitors and coils are expressed in designated code. Please check the parts description by the following code table.
2. Some of transistors and diodes are indicated in mark for the substitution of parts name. Please check the parts name by the following code table.
3. Voltages and waveforms were taken with a video color bar signal(1Vp-p at 75 ohms terminated) and controls to normal.
4. Voltages were taken with a high-impedance digital voltmeter.

Capacitor Reading



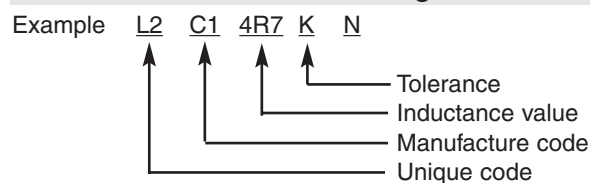
Material table

Mark	Material
E	Electrolytic
P	Electrolytic (non-polarized)
C	Ceramic (temperature compensation)
K	Ceramic
F	Polyester
N	Polypropylene
M	Metalized polypropylene
H	Metalized polypropylar
B	Ceramic (semiconductor)
G	Metalized polyester
Y	Composite film
S	Styrol
T	Tantalum oxide solid electrolytic
U	Organic semiconductive electrolyte
D	Electric double layer electrolytic

Tolerance table

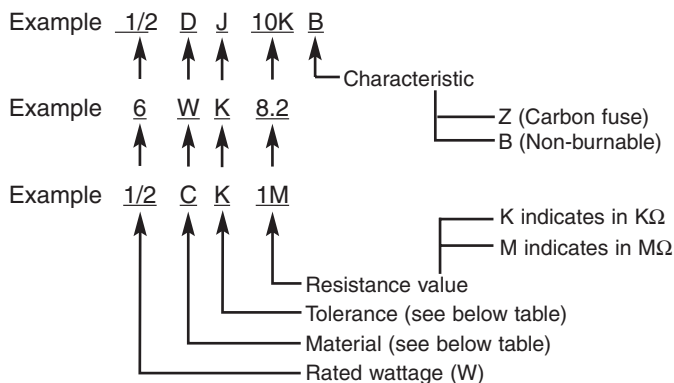
Mark	Tolerance
A	not specified
B	± 0.1
C	± 0.25
D	± 0.5
F	± 1
G	± 2
E	± 2.5
H	± 3
J	± 5
K	± 10
M	± 20
N	± 30
P	+100 -0
Q	+30 -10
T	+50 -10
U	+75 -10
V	+20 -10
W	+100 -10
X	+40 -20
Y	+150 -10
Z	+80 -20

Coil Reading



Mark	Tolerance (nH)	Mark	Tolerance (%)
C	± 0.25	G	± 2
D	± 0.5	J	± 5
S	± 0.3	K	± 10
A	± 0.2	L	± 15
		M	± 20

Resistor Reading



Note: Resistor which is indicated with resistance value only are 1/6W carbon resistor. Resistor which is indicated with material, tolerance and value are 1/4W rated wattage.

Material table

Mark	Material
D	Carbon
N	Metal film
S	Oxide metal film
C	Solid
G	Metal glaze
W	Wire winding or cement
H	Ceramic
F	Fusible

Tolerance table

Mark	Tolerance
A	± 0.05
B	± 0.1
C	± 0.25
D	± 0.5
F	± 1
G	± 2
J	± 5
K	± 10
M	± 20
P	+5 -15
Z	used in 0 ohm

Diode/Transistor Type Reading

Diode

Mark	Type number
R	1S2076A, 1S2473, 1N4148
AA	1S2076A, 1S2473, 1SS133, 1N4148

Transistor

(1) NPN type

Mark	Type number
--	2SC536 2SC945A 2SC1815 2SC1740S
AD	NF, NG PA, QA Y, GR Q, R, S
AE	NF, NG PA, QA, RA O, Y, GR Q, R, S

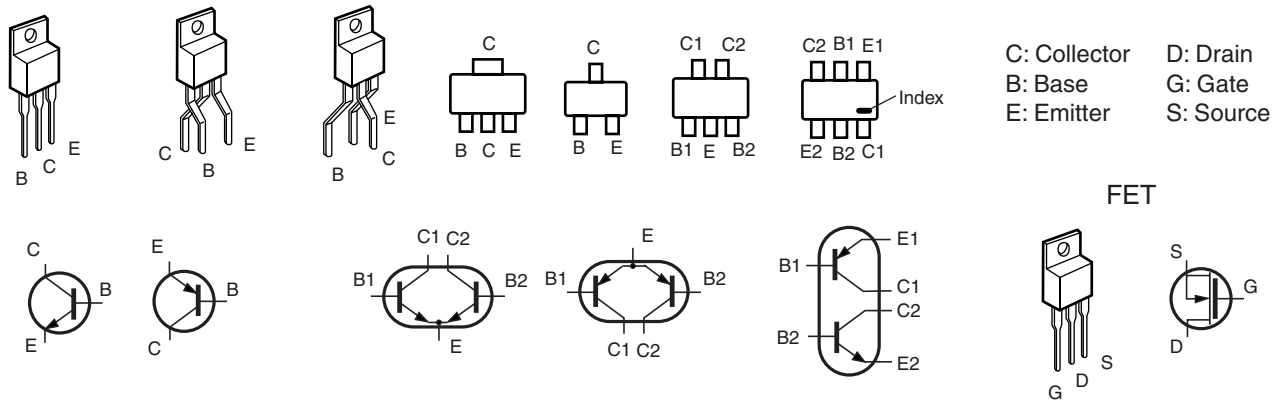
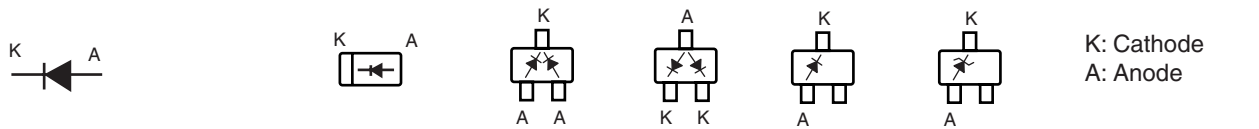
(2) PNP type

Mark	Type number
--	2SA608 2SA564A 2SA1015 2SA933S
AB	NF R Y, GR R
AC	NF Q, R O, Y, GR Q, R

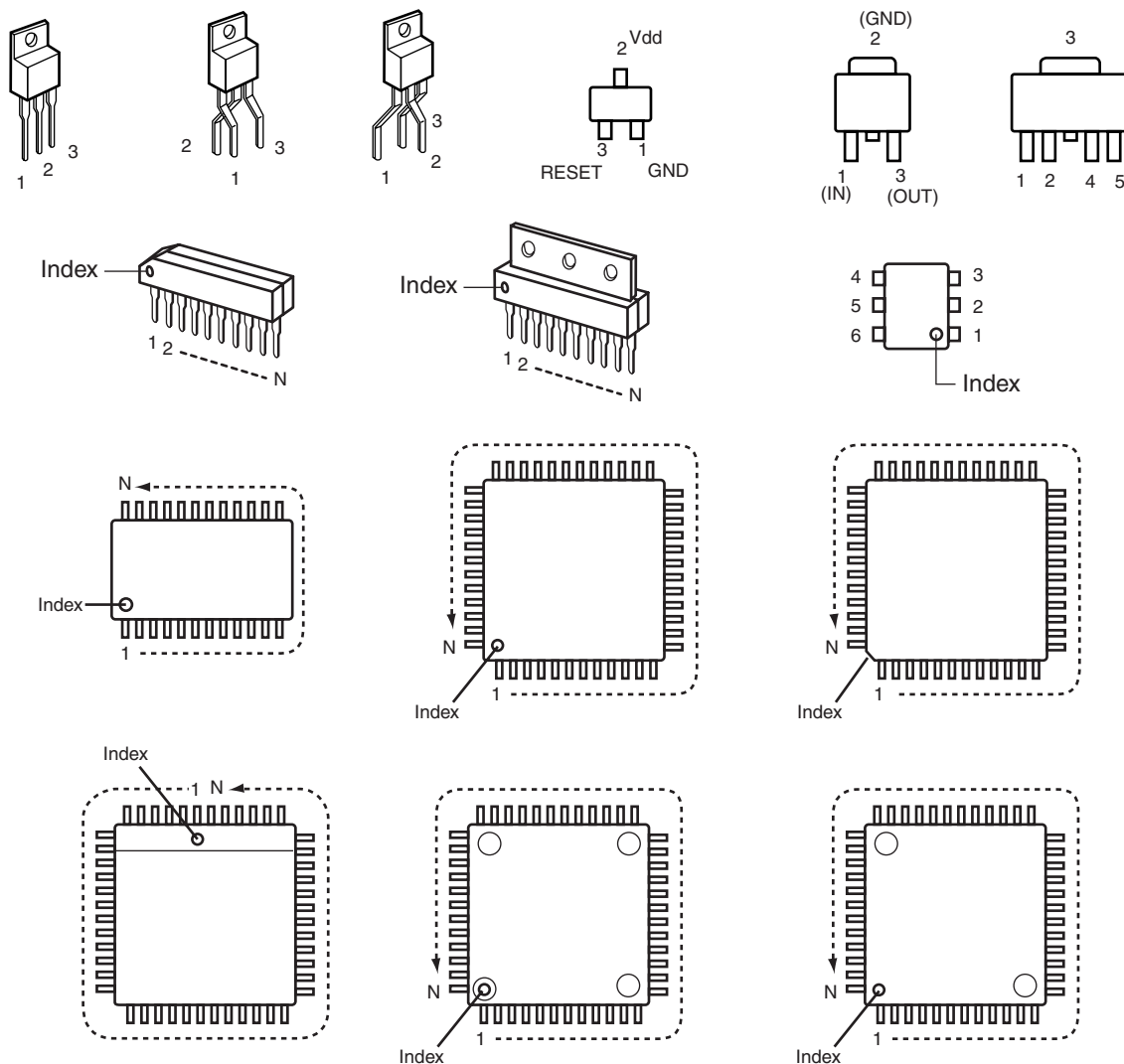
(3) Chip type

Mark	Type number
--	2SA1179/N 2SA1037K 2SA1037AK 2SC2812/N 2SC2412K
AJ	M6, M7 R, S R, S
AH	
	L6, L7 R, S

- Transistor/FET



- IC



Note on Soldering

Do not use solder containing lead.

This product has been manufactured using lead-free solder in order to help preserve the environment.

Because of this, be sure to use lead-free solder when carrying out repair work, and never use solder containing lead.

Lead-free solder has a melting point that is 30–40 °C (86–104 °F) higher than solder containing lead, and moreover it does not contain lead which attaches easily to other metals. As a result, it does not melt as easily as solder containing lead, and soldering will be more difficult even if the temperature of the soldering iron is increased.

The extra difficulty in soldering means that soldering time will increase and damage to the components or the circuit board may easily occur.

Because of this, you should use a soldering iron and solder that satisfy the following conditions when carrying out repair work. Also, soldering work must be done in a short time.

Soldering iron

Use a soldering iron which is 70 W or equivalent, and which lets you adjust the tip temperature up to 450 °C (842 °F) It should also have as good temperature recovery characteristics as possible.

Solder

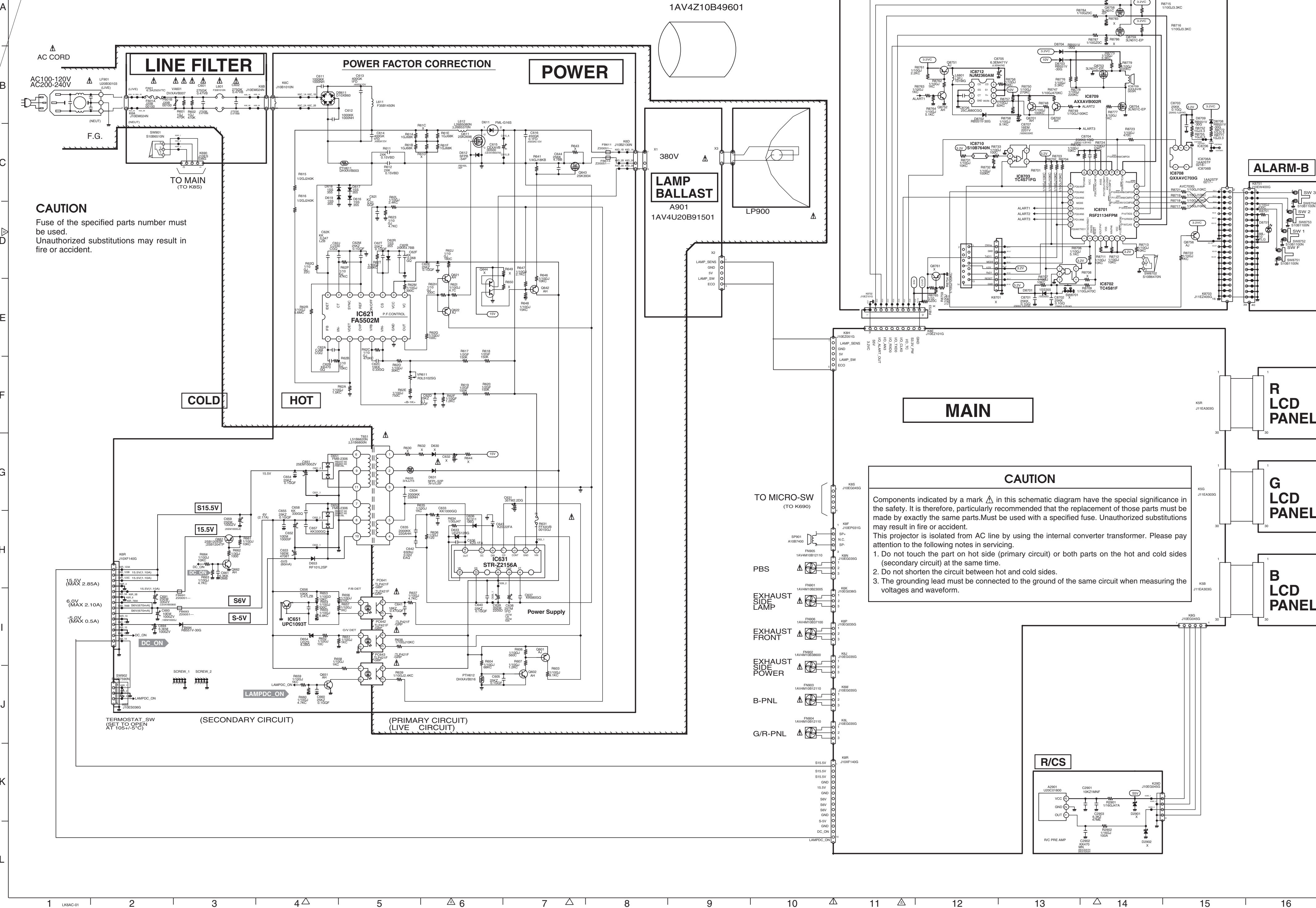
Use solder with the metal content and composition ratio by weight given in the table below. Do not use solders which do not meet these conditions.

Metal content	Tin (Sn)	Silver (Ag)	Copper (Cu)
Composition ratio by weight	96.5 %	3.0 %	0.5 %

Note:

If replacing existing solder containing lead with lead-free solder in the soldered parts of products that have been manufactured up until now, remove all of the existing solder at those parts before applying the lead-free solder.

Schematic Diagrams

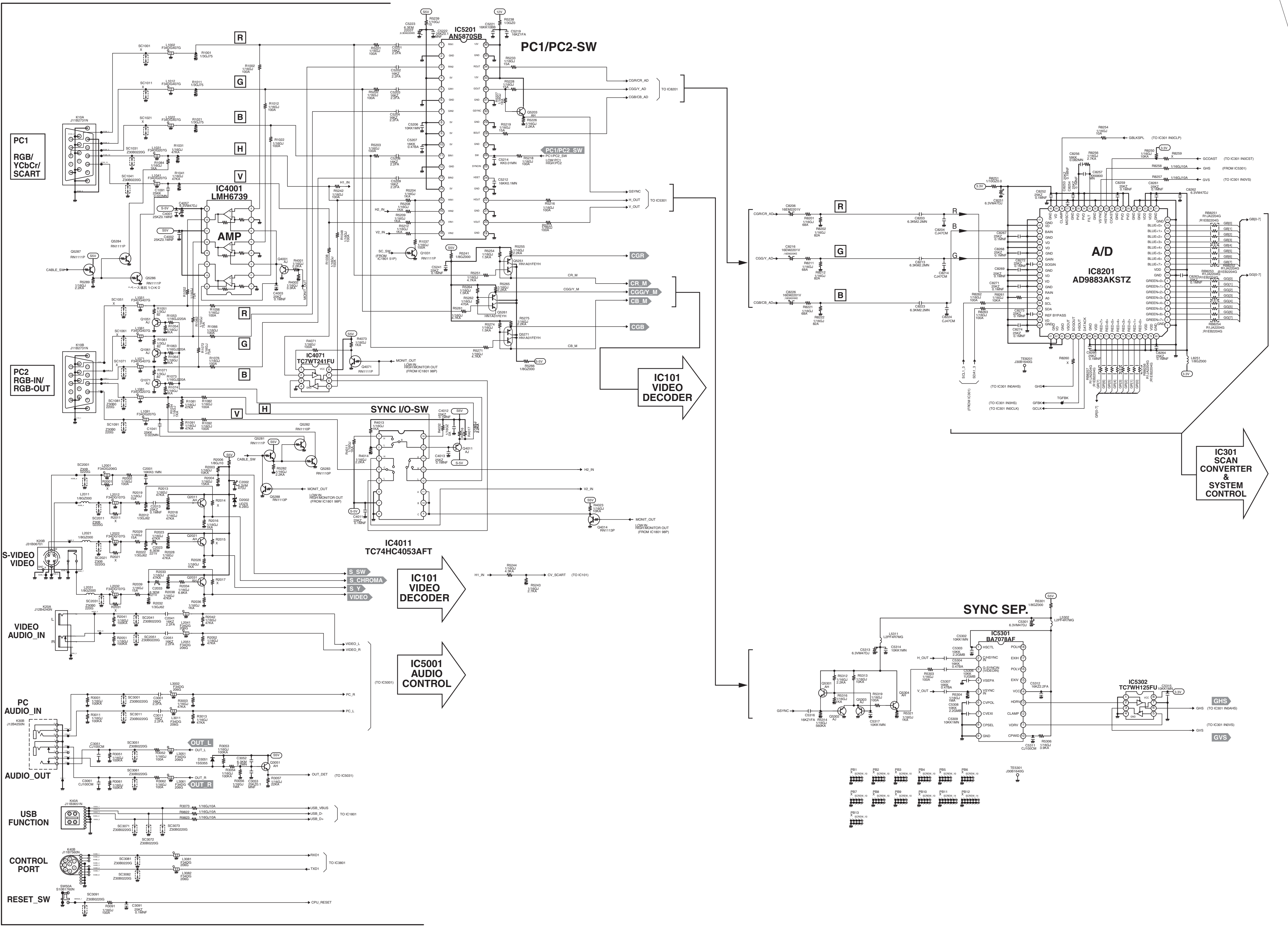


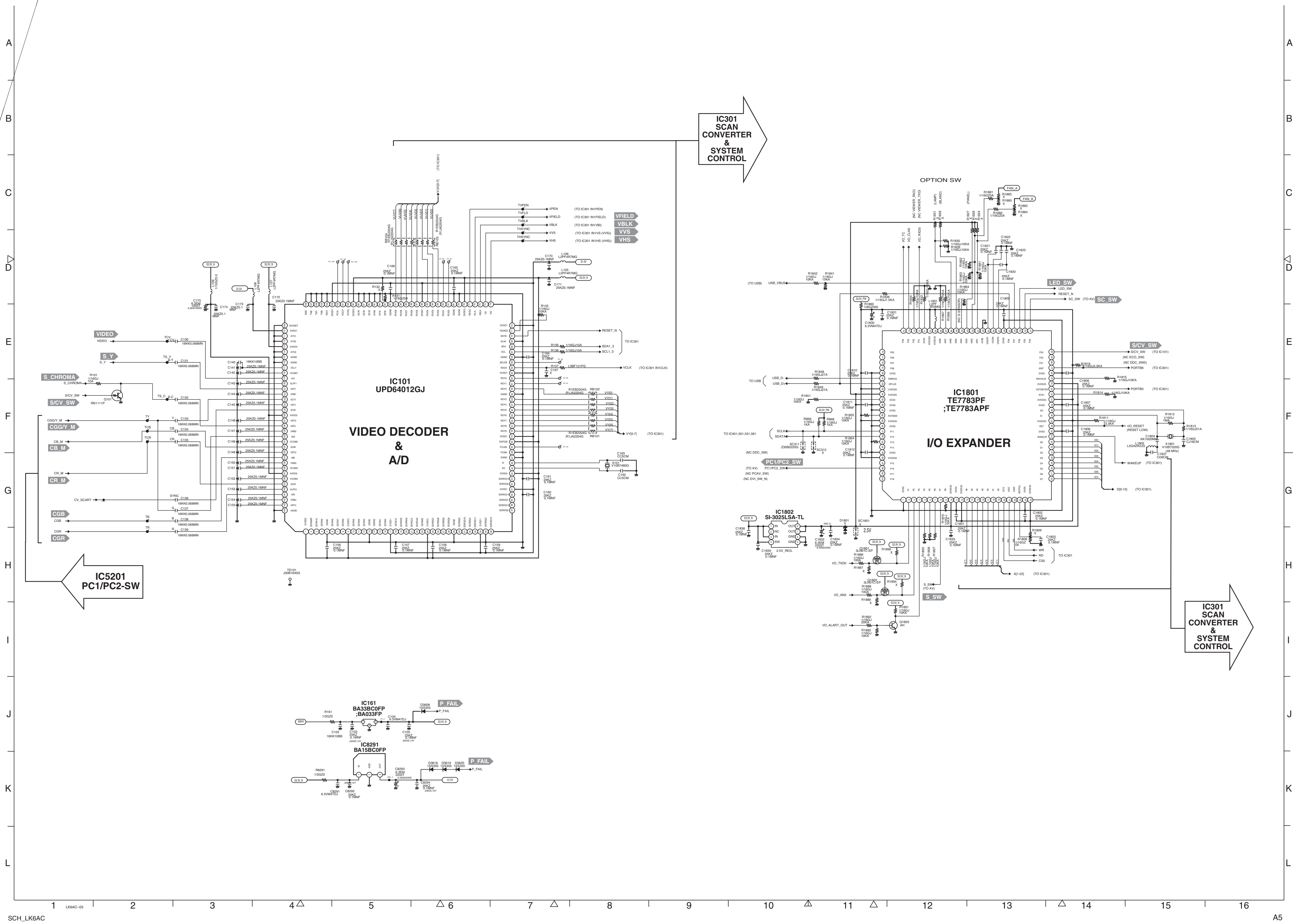
CAUTION
Fuse of the specified parts number must be used.
Unauthorized substitutions may result in fire or accident.

CAUTION
Components indicated by a mark \triangle in this schematic diagram have the special significance in the safety. It is therefore, particularly recommended that the replacement of those parts must be made by exactly the same parts. Must be used with a specified fuse. Unauthorized substitutions may result in fire or accident.
This projector is isolated from AC line by using the internal converter transformer. Please pay attention to the following notes in servicing.
1. Do not touch the part on hot side (primary circuit) or both parts on the hot and cold sides (secondary circuit) at the same time.
2. Do not shorten the circuit between hot and cold sides.
3. The grounding lead must be connected to the ground of the same circuit when measuring the voltages and waveform.

A
B
C
D
E
F
G
H
I
J
K
L

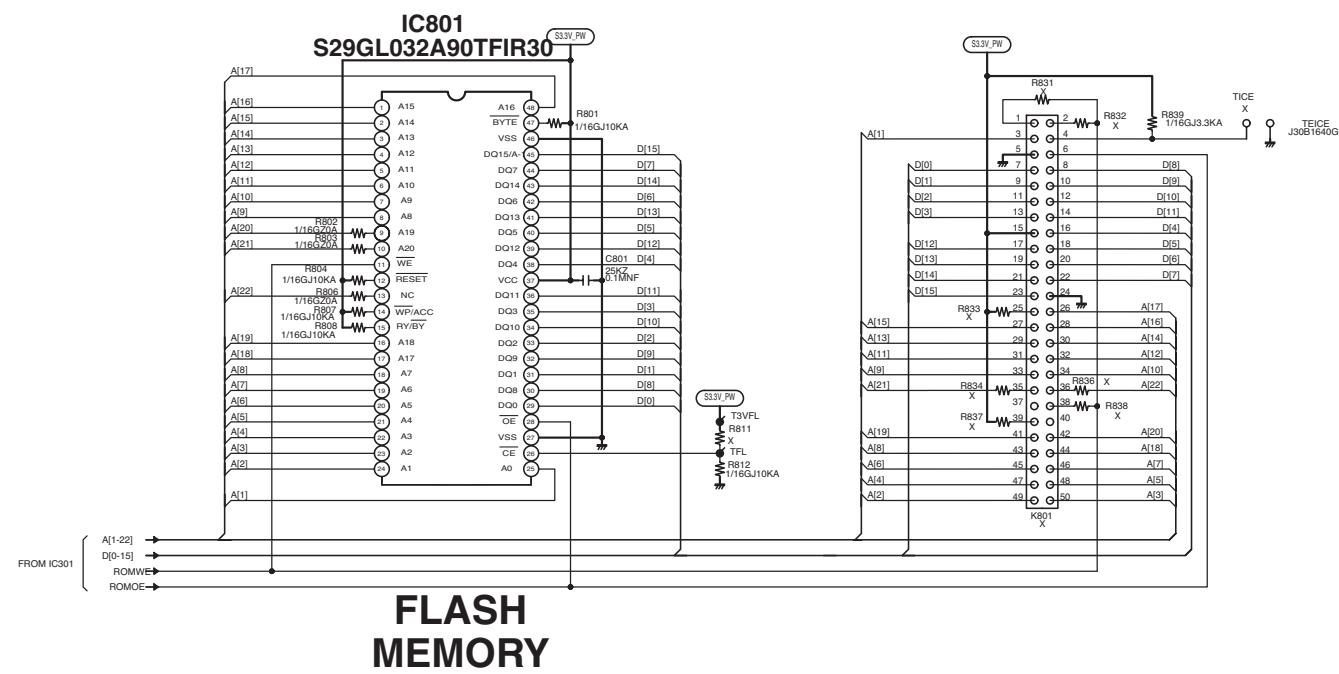
A
B
C
D
E
F
G
H
I
J
K
L



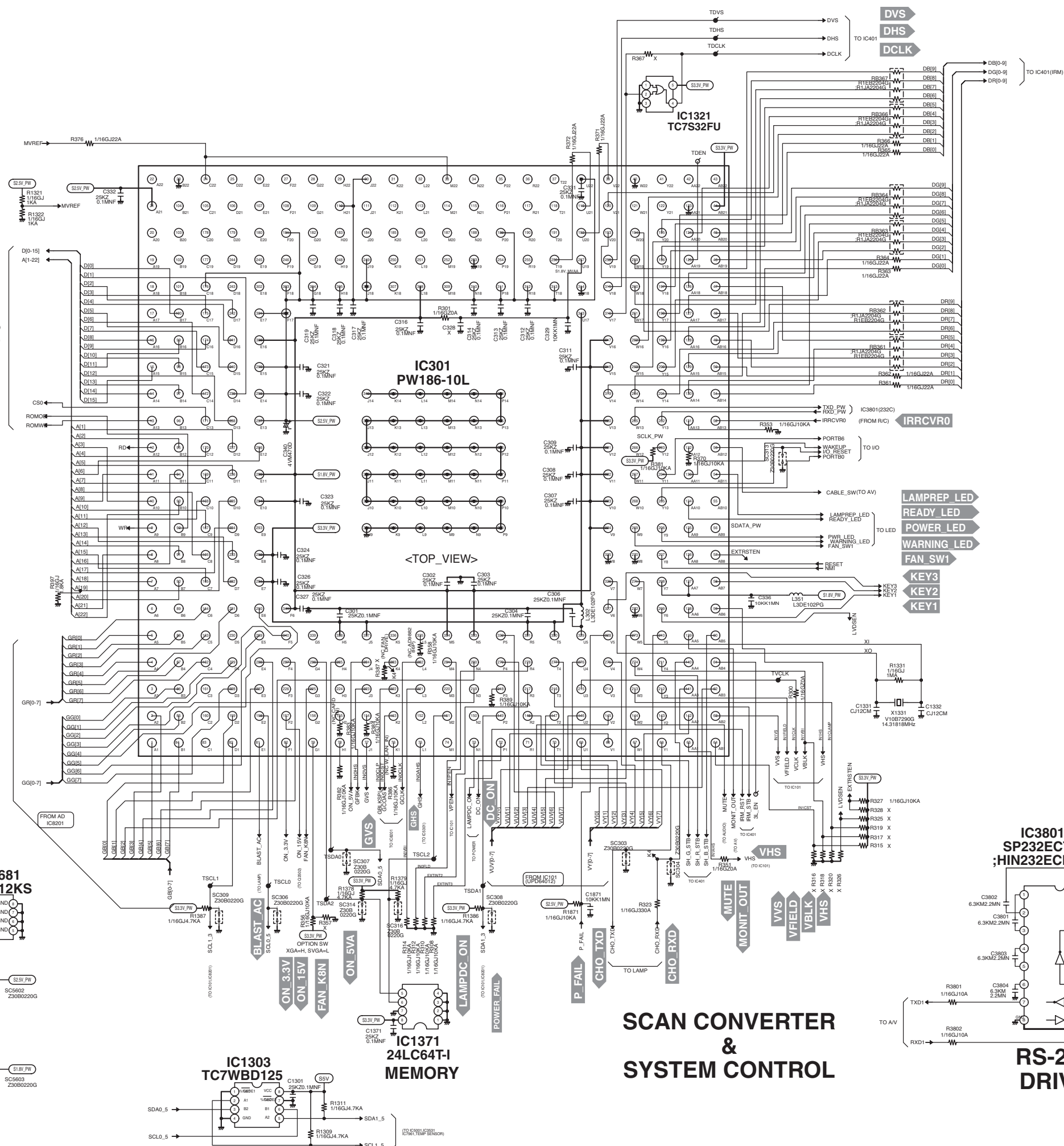


A
B
C
D
E
F
G
H
I
J
K
L

A
B
C
D
E
F
G
H
I
J
K
L



FLASH
MEMORY

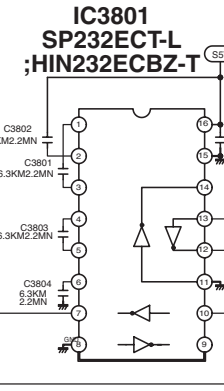
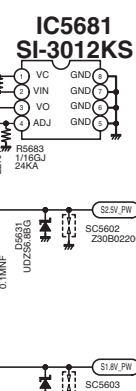
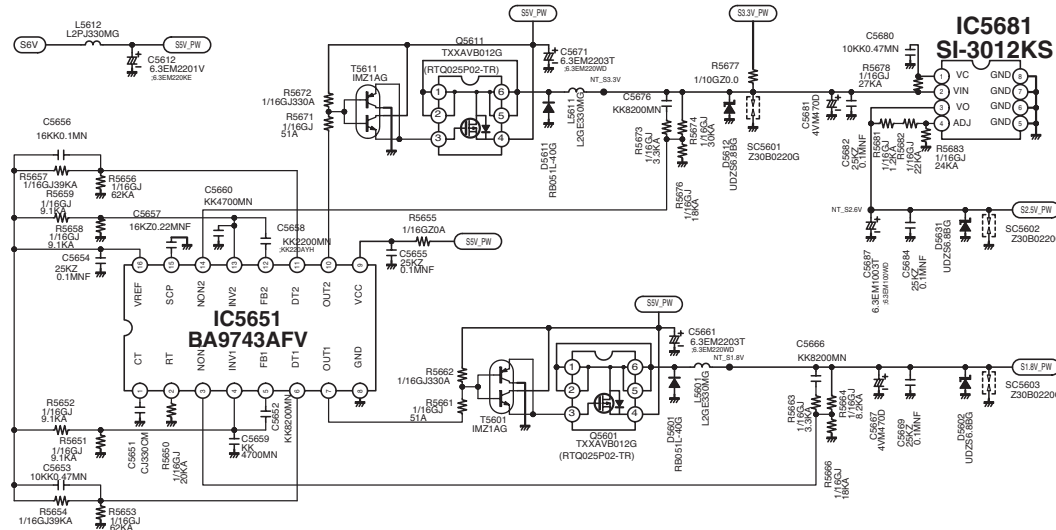
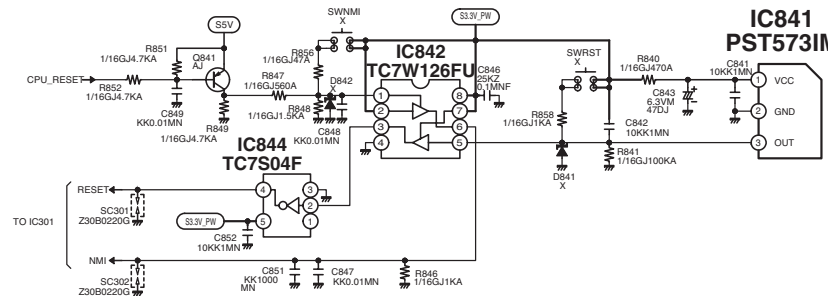
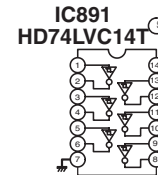


IC1371
24LC64-T
MEMORY

SCAN CONVERTER
&
SYSTEM CONTROL

RS-232C
DRIVER

IC401
LCD DRIVER

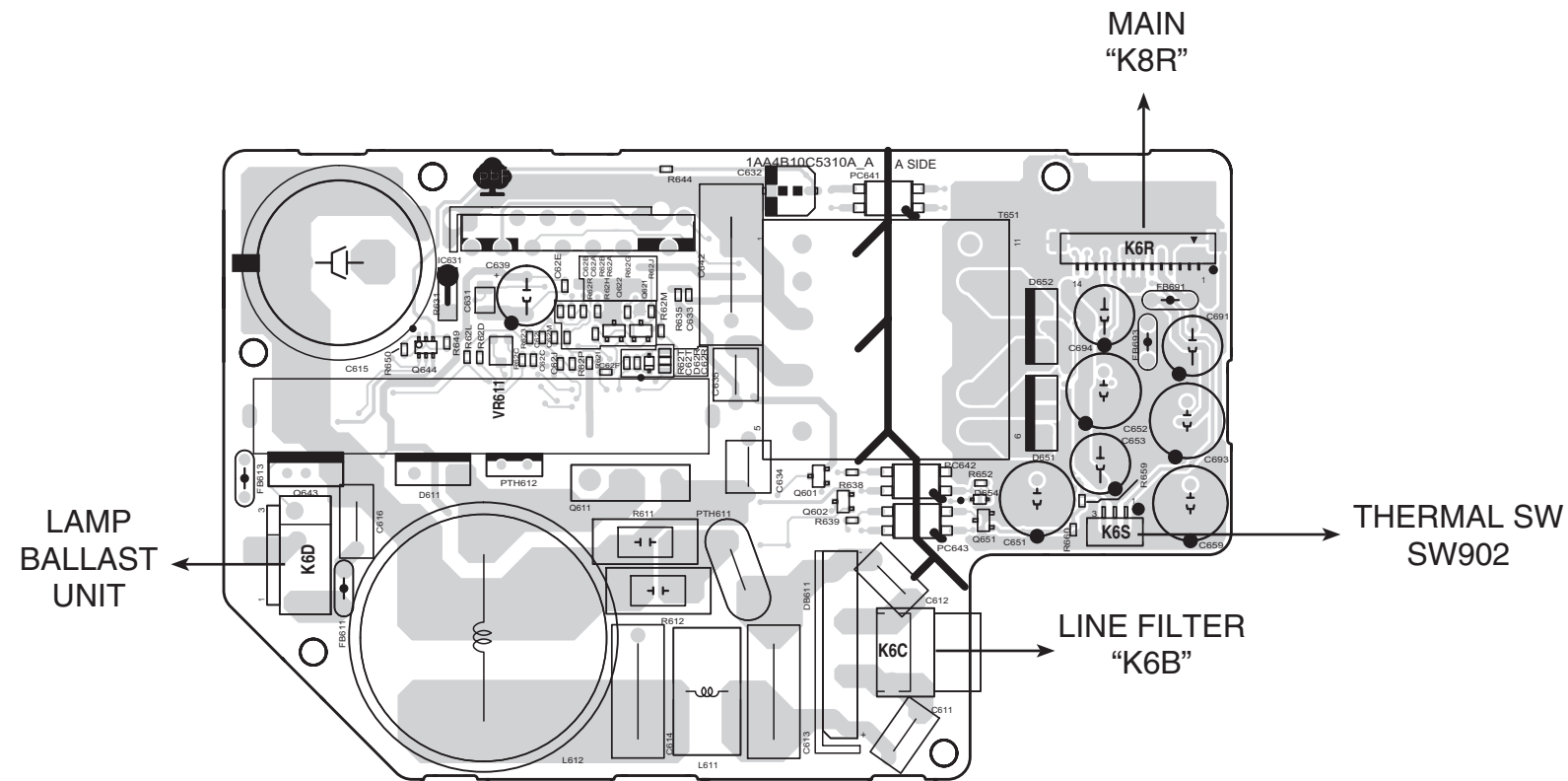




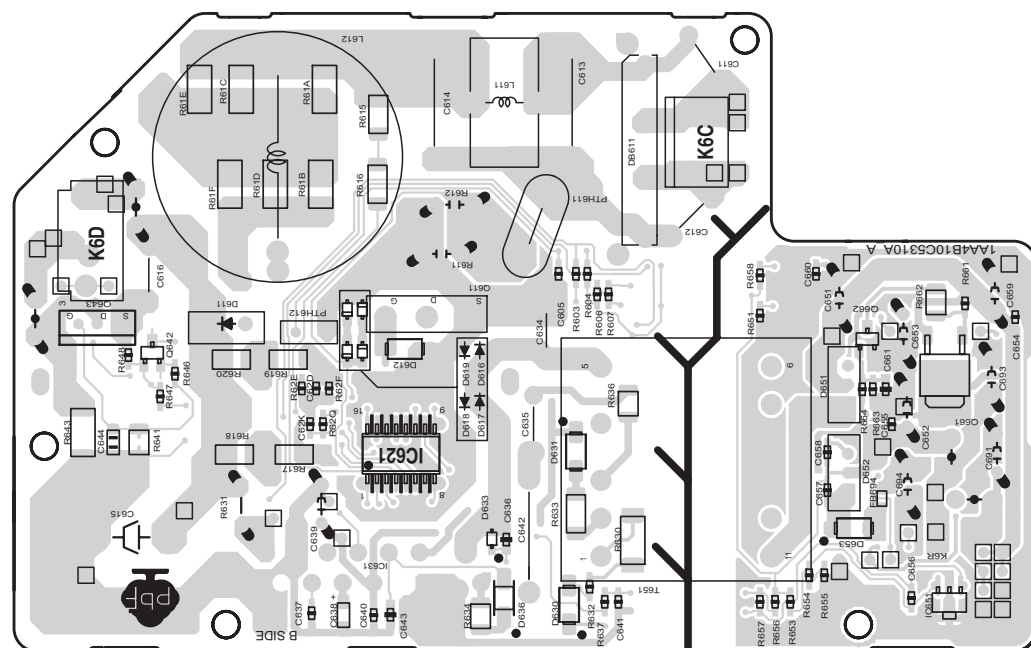


Printed Wiring Board Diagrams

POWER (SIDE:A)



POWER (SIDE:B)

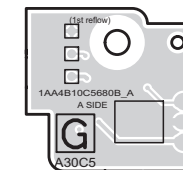


⚠ CAUTION

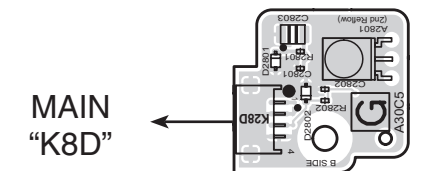
This projector is isolated from AC line by using the internal converter transformer. Please pay attention to the following notes in servicing

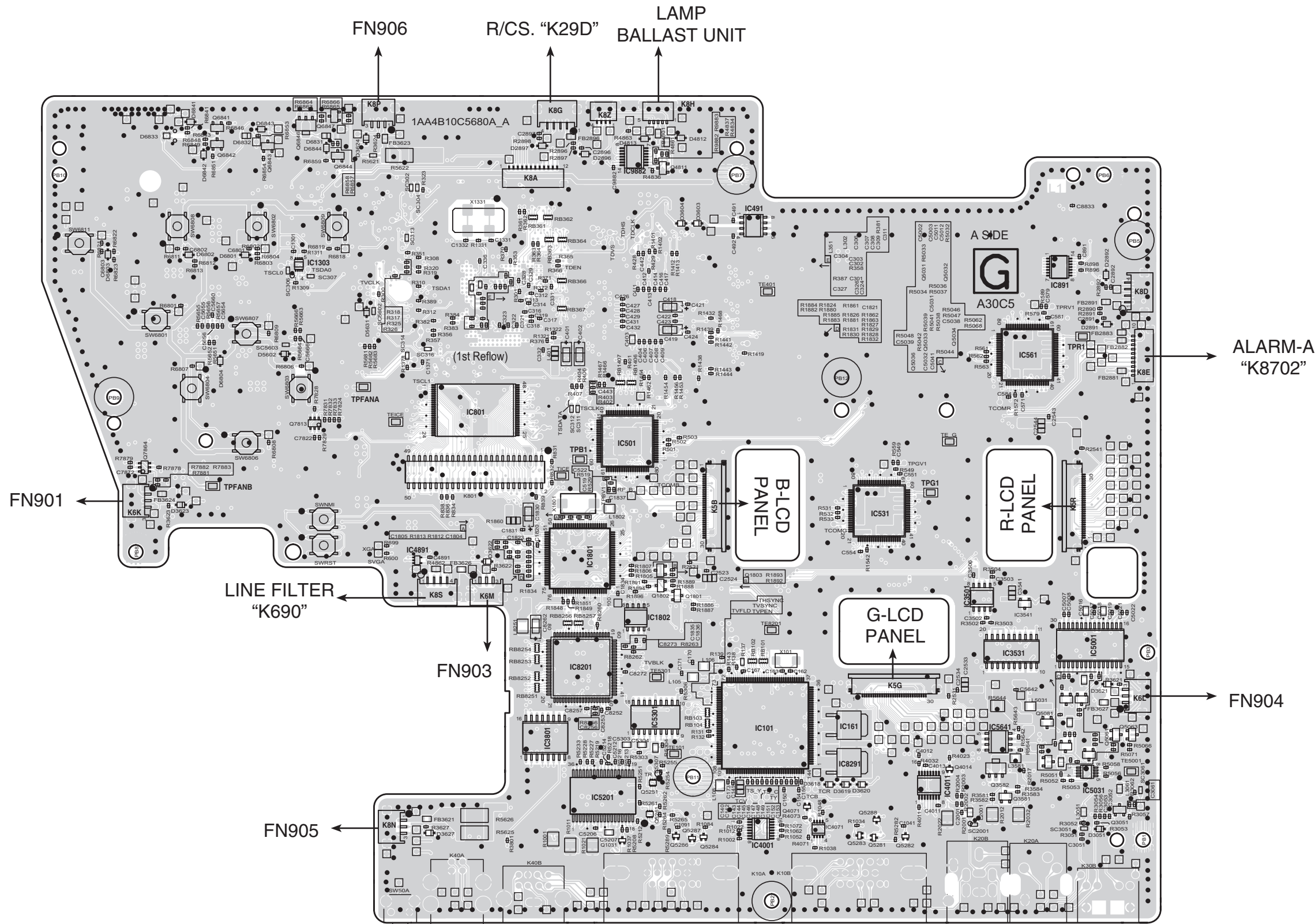
1. Do not touch the part on hot side (primary circuit) or both parts on hot and cold sides (secondary circuit) at the same time.
2. Do not shorten the circuit between hot and cold sides.
3. The grounding lead must be connected to the ground of the same circuit when measuring of voltages and waveforms.

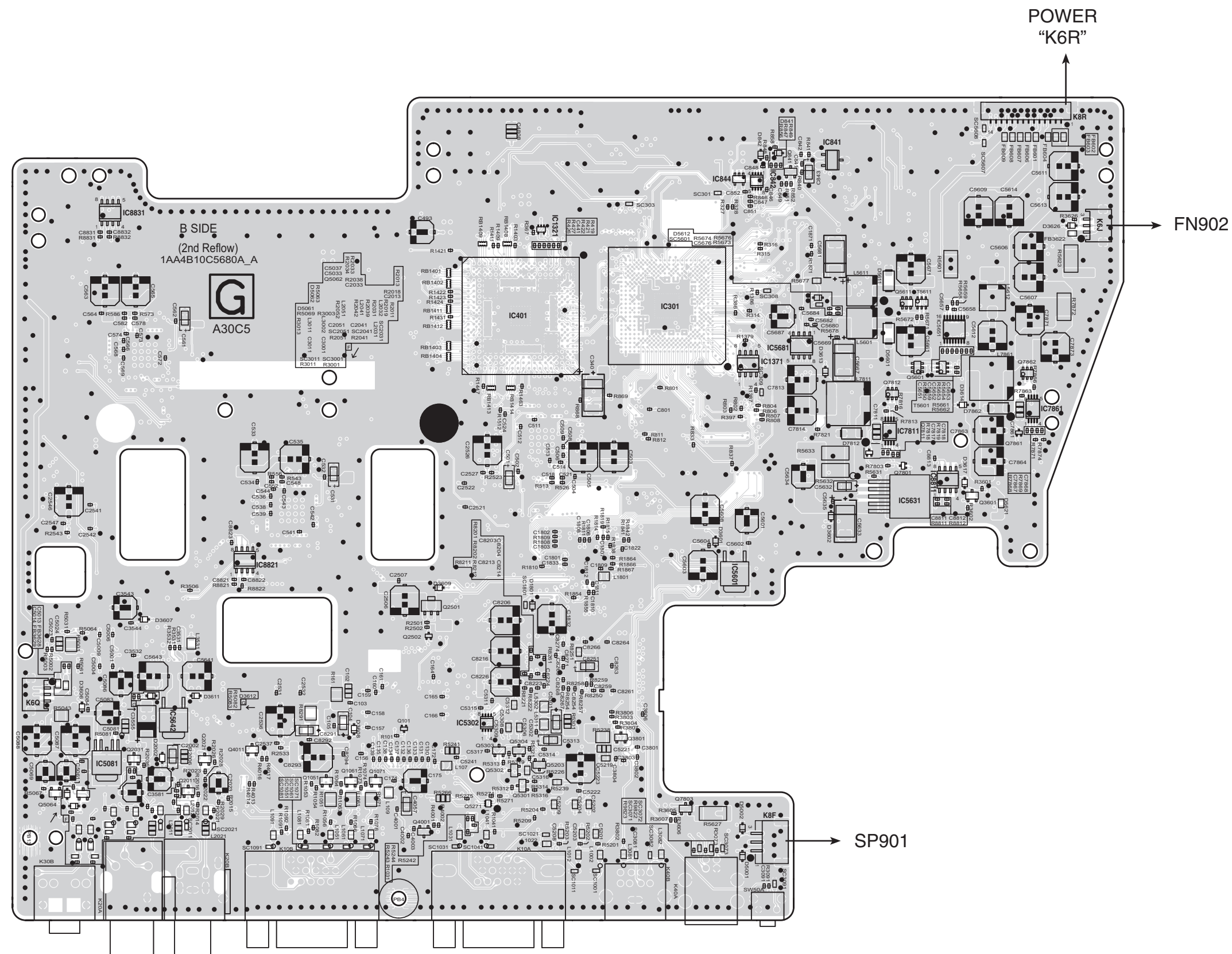
R/CS (SIDE:A)



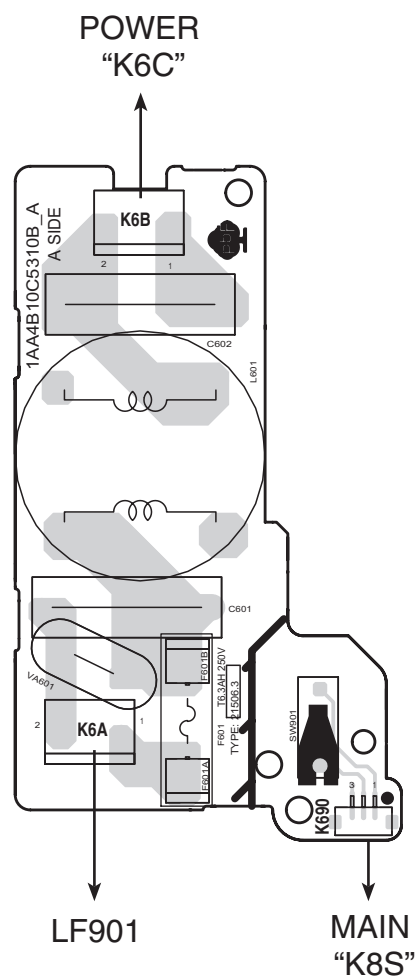
R/CS. (SIDE:B)



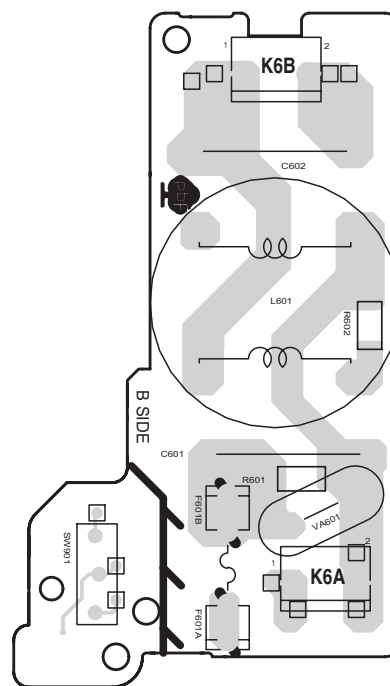




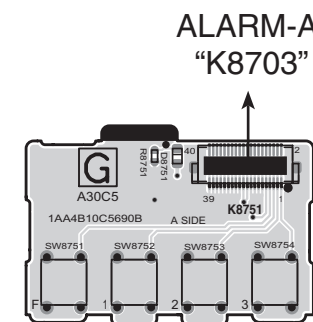
LINE FILTER (SIDE:A)



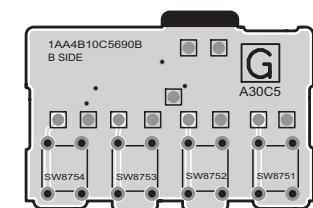
LINE FILTER (SIDE:B)



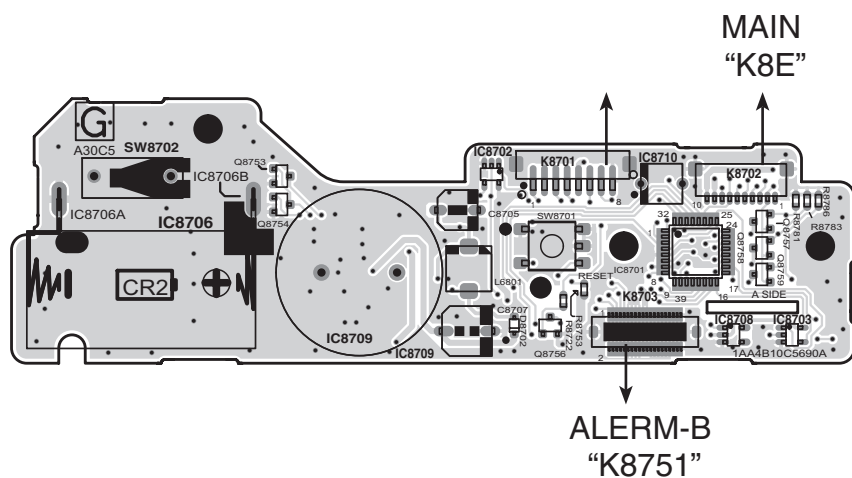
ALARM-B (SIDE:A)



ALARM-B (SIDE:B)



ALARM-A (SIDE:A)



ALARM-A (SIDE:B)

